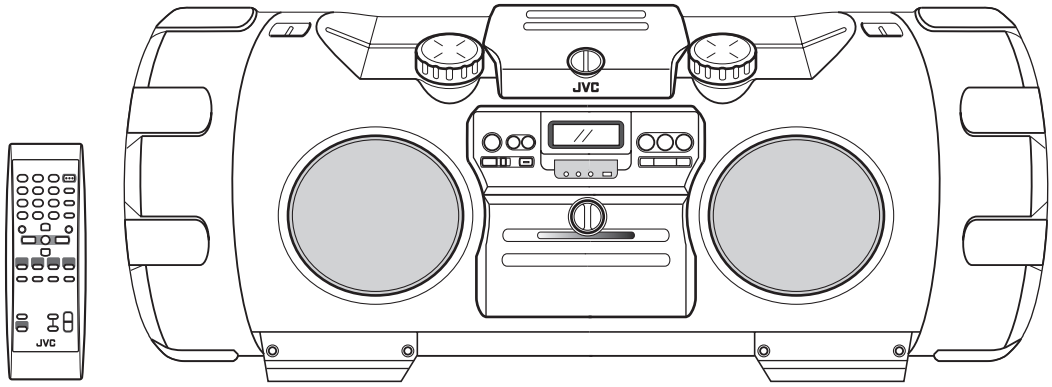
JVC

SERVICE MANUAL

POWERED WOOFER CD SYSTEM

RV-NB1

Area suffix	
J	U.S.A.
C	Canada



A power transformer and the parts of several points were changed.
The label for discernment is in a rear cabinet.
Please use this service manual about the products with which the label for discernment has stuck.

Lead free solder used in the board (material : Sn-Ag-Cu, melting point : 219 Centigrade)

TABLE OF CONTENTS

1 PRECAUTION 1-3
2 SPECIFIC SERVICE INSTRUCTIONS 1-3
3 DISASSEMBLY 1-9
4 ADJUSTMENT 1-9
5 TROUBLESHOOTING 1-9

COPYRIGHT © 2005 Victor Company of Japan, Limited

No.MB333B
2005/12

SPECIFICATION

Amplifier	Output Power	6 W per channel, min. RMS, at 4 Ω from 150Hz to 15kHz with no more than 10% total harmonic distortion. 20 W per channel woofer, min. RMS into 4 Ω at 60 Hz with no more than 10% total harmonic distortion.
	Input Sensitivity/Impedance (1 kHz)	AUX IN: 300 mV/47 kΩ
	MIC/GUITAR INPUT: Switchable	MIC: 200 Ω - 2 kΩ (6.3 mm dia. plug) GUITAR: 100 kΩ - 1 MΩ (6.3 mm dia. plug)
	Output Sensitivity/Impedance (1 kHz)	Phones: 16 Ω - 1 kΩ 0 - 12 mW/ch output into 32 Ω
Cassette Deck	Frequency Response	Type II (High position): 60 Hz - 14 kHz
	Wow and Flutter	0.15% (WRMS)
Disc Player	Dynamic range	90 dB
	Signal-to-noise ratio	95 dB
	Wow and Flutter	Unmeasurable
Tuner	FM Tuner	87.5 MHz - 108.0 MHz
	AM Tuner	530 kHz - 1 710 kHz
	Antenna	FM telescopic antenna Ferrite core antenna for AM
Speakers	Full range	8 cm (3 - 3/16") × 2, 4 Ω
	Super woofer	16 cm (6 - 5/16") × 2, 4 Ω
General	Dimensions	690 mm × 239 mm × 296 mm (W/H/D) (27 - 3/16" × 9 - 7/16" × 11 - 11/16")
	Mass	9.5 kg (21 lbs) (without batteries) 10.6 kg (23.4 lbs) (with batteries)
Power Specifications	Power Requirements	AC 120 V , 60 Hz DC 15V ("R20/D (13F)" batteries (10)) External DC12V (car battery via optional CA-R120 car adapter)
	Power Consumption	50 W (power on mode) 1.6 W (in standby mode)

Design and specifications are subject to change without notice.

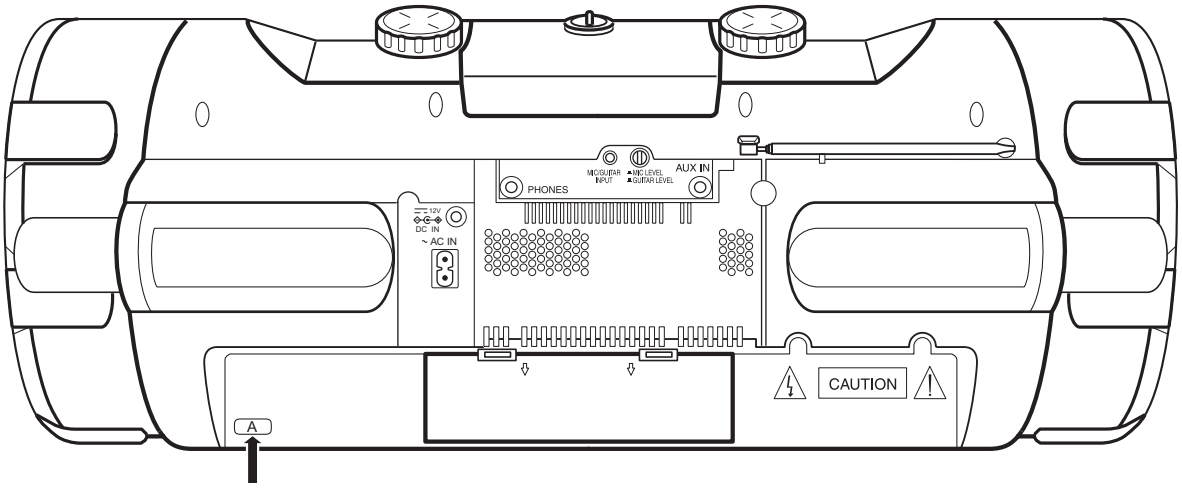
SECTION 1
PRECAUTION

Please refer to "RV-NB1 (No.MB333)" about this section.

SECTION 2
SPECIFIC SERVICE INSTRUCTIONS

2.1 HOW TO IDENTIFY MODELS

2.2 MK3 PLATE



Discernment sign

RV-NB1

Parts list(General assembly) [P3-4 Block NO.M1]

⚠	Item	Parts name	Parts number				
			J (MB333)	J	Q'ty	C	Q'ty
⚠	140	POWER TRANS	QQT0466-002	QQT0508-002	1	QQT0508-002	1
⚠	142	FUSE	QMF51N2-1R25-J1	QMF51U2-1R25-J8	1	QMF51U2-1R25-J8	1
⚠	143	FUSE	QMF51U1-8R0-J1	QMF51U1-8R0-J8	1	QMF51U1-8R0-J8	1
⚠	144	FUSE	QMF51U1-6R3-J1	QMF51U1-6R3-J8	1	QMF51U1-6R3-J8	1
⚠	145	FUSE	QMF51U1-6R3-J1	QMF51U1-6R3-J8	1	QMF51U1-6R3-J8	1
	146	E-SI C WIRE C-C	WJJ0002-001A	WJJ0002-001A-E	1	WJJ0002-001A-E	1
	147	FFC WIRE	QUQ412-0912CJ	QUQQ12-0912CJ-E	1	QUQQ12-0912CJ-E	1
	148	FFC WIRE	QUQ412-0916CJ	QUQQ12-0916CJ-E	1	QUQQ12-0916CJ-E	1
	149	FFC WIRE	QUQ412-1018CJ	QUQQ12-1018CJ-E	1	QUQQ12-1018CJ-E	1
	150	FFC WIRE	QUQ412-1310CJ	QUQQ12-1310CJ-E	1	QUQQ12-1310CJ-E	1
	151	FFC WIRE	QUQ412-1310CJ	QUQQ12-1310CJ-E	1	QUQQ12-1310CJ-E	1
	152	FFC WIRE	QUQ110-1712AJ	QUQW10-1712AJ-E	1	QUQW10-1712AJ-E	1
	153	FFC WIRE	QUQ110-1607AJ	QUQW10-1607AJ-E	1	QUQW10-1607AJ-E	1

Parts list(Main board) [P3-10 Block NO.01]

⚠	Item	Parts name	Parts number				
			J (MB333)	J	Q'ty	C	Q'ty
⚠	IC301	IC	TA8233H	TA8233BH	1	TA8233BH	1
⚠	D1901	SI DIODE	D5SBA20-S1	TS6P05G-07	1	TS6P05G-07	1
	CN601	CONNECTOR	QGF1205F1-13	QGF1205F2-13	1	QGF1205F2-13	1
	CN602	CONNECTOR	QGF1205F1-13	QGF1205F2-13	1	QGF1205F2-13	1
	FW601	E-SI C WIRE C-B	WJK0002-001A	WJK0002-001A-E	1	WJK0002-001A-E	1
	FW602	E-SI C WIRE C-B	WJK0004-001A	WJK0004-001A-E	1	WJK0004-001A-E	1
	FW603	001A C WIRE C-B	WJK0003-001A	WJK0003-001A-E	1	WJK0003-001A-E	1

Parts list(Micon board) [P3-12 Block NO.02]

⚠	Item	Parts name	Parts number				
			J (MB333)	J	Q'ty	C	Q'ty
	C2503	C CAPACITOR	NCB31CK-333X	NCB31EK-333X	1	NCB31EK-333X	1
	C3361	E CAPACITOR	QEKC1AM-107Z	QEKC1CM-107Z	1	QEKC1CM-107Z	1
	C3362	E CAPACITOR	QEKC1EM-475Z	QEKC1HM-475Z	1	QEKC1HM-475Z	1
	C4142	C CAPACITOR	NCS31HJ-150X	NDC31HJ-150X	1	NDC31HJ-150X	1
	C4143	E CAPACITOR	QEKC1EM-475Z	QEKC1HM-475Z	1	QEKC1HM-475Z	1
	C4144	E CAPACITOR	QEKC1EM-475Z	QEKC1HM-475Z	1	QEKC1HM-475Z	1
	C4242	C CAPACITOR	NCS31HJ-150X	NDC31HJ-150X	1	NDC31HJ-150X	1
	C4243	E CAPACITOR	QEKC1EM-475Z	QEKC1HM-475Z	1	QEKC1HM-475Z	1
	C4244	E CAPACITOR	QEKC1EM-475Z	QEKC1HM-475Z	1	QEKC1HM-475Z	1
	C5306	E CAPACITOR	QEKC1EM-475Z	QEKC1HM-475Z	1	QEKC1HM-475Z	1
	C7352	C CAPACITOR	NCS31HJ-331X	NDC31HJ-331X	1	NDC31HJ-331X	1
	C7357	C CAPACITOR	NCS31HJ-680X	NDC31HJ-680X	1	NDC31HJ-680X	1
	C7358	E CAPACITOR	QETN1CM-106Z	QETN1HM-106Z	1	QETN1HM-106Z	1
	C7361	C.CAPACITOR	NCS31HJ-221X	NDC31HJ-221X	1	NDC31HJ-221X	1
	C8351	C.CAPACITOR	NCS31HJ-680X	NDC31HJ-680X	1	NDC31HJ-680X	1
	C8352	C.CAPACITOR	NCS31HJ-221X	NDC31HJ-221X	1	NDC31HJ-221X	1
	C8353	C.CAPACITOR	NCS31HJ-221X	NDC31HJ-221X	1	NDC31HJ-221X	1
	C8354	C CAPACITOR	NCS31HJ-330X	NDC31HJ-330X	1	NDC31HJ-330X	1
	C8356	E CAPACITOR	QEKC1AM-107Z	QEKC1CM-107Z	1	QEKC1CM-107Z	1
	C9007	C CAPACITOR	NCS31HJ-330X	NDC31HJ-330X	1	NDC31HJ-330X	1
	C9008	C CAPACITOR	NCS31HJ-330X	NDC31HJ-330X	1	NDC31HJ-330X	1
	C9009	C CAPACITOR	NCS31HJ-220X	NDC31HJ-220X	1	NDC31HJ-220X	1
	C9010	C CAPACITOR	NCS31HJ-220X	NDC31HJ-220X	1	NDC31HJ-220X	1
	C9182	C.CAPACITOR	NCS31HJ-680X	NDC31HJ-680X	1	NDC31HJ-680X	1
	C9188	C.CAPACITOR	NCS31HJ-680X	NDC31HJ-680X	1	NDC31HJ-680X	1
	L4351	FERRITE BEADS	QQR1183-001Z	QQR0621-001Z	1	QQR0621-001Z	1
	L4352	FERRITE BEADS	QQR1183-001Z	QQR0621-001Z	1	QQR0621-001Z	1
	CN403	ONNECTOR	QGF1205C1-09	QGF1205C2-09	1	QGF1205C2-09	1
	CN404	ONNECTOR	QGF1036F1-17	QGF1036F2-17	1	QGF1036F2-17	1
	CN405	ONNECTOR	QGF1205C1-10	QGF1205C2-10	1	QGF1205C2-10	1
	CN406	ONNECTOR	QGF1205C1-09	QGF1205C2-09	1	QGF1205C2-09	1
	FW251	PARA RIBON WIRE	QUM043-14Z3Z3	QUM213-14Z3Z3-E	1	QUM212-08Z3Z3-E	1
	FW253	PARA RIBON WIRE	QUM043-14Z3Z3	QUM213-14Z3Z3-E	1	QUM213-14Z3Z3-E	1
	FW256	SIN CL C-B WIRE	QJK002-020602	QJK002-020602-E	1	QJK002-020602-E	1

⚠	Item	Parts name	Parts number				
			J (MB333)	J	Q'ty	C	Q'ty
	FW401	PARA RIBON WIRE	QUM042-08Z3Z3	QUM212-08Z3Z3-E	1	QUM213-14Z3Z3-E	1
	FW403	SIN CL C-B WIRE	QJK003-040704	QJK003-040704-E	1	QJK003-040704-E	1
	K7351	FERRITE BEADS	QQR1183-001Z	QQR0621-001Z	1	QQR0621-001Z	1
	K9001	FERRITE BEADS	QQR1183-001Z	QQR0621-001Z	1	QQR0621-001Z	1
	K9003	FERRITE BEADS	QQR1183-001Z	QQR0621-001Z	1	QQR0621-001Z	1

Parts list(Tuner board) [P3-15 Block NO.03]

⚠	Item	Parts name	Parts number				
			J (MB333)	J	Q'ty	C	Q'ty
	IC1	IC	TA2104AN	TA2104ANG	1	TA2104ANG	1
	C33	E CAPACITOR	QETN1AM-107Z	QETN1CM-107Z	1	QETN1CM-107Z	1
	C61	E CAPACITOR	QETN1AM-107Z	QETN1CM-107Z	1	QETN1CM-107Z	1
	C69	C.CAPACITOR	QDXB1CM-222Y	QCBB1HK-222Y	1	QCBB1HK-222Y	1
	C71	E CAPACITOR	QETN1CM-106Z	QETN1HM-106Z	1	QETN1HM-106Z	1
	CN1	CONNECTOR	QGF1205C1-09	QGF1205C2-09	1	QGF1205C2-09	1

Parts list(CD servo board) [P3-16 Block NO.04]

⚠	Item	Parts name	Parts number				
			J (MB333)	J	Q'ty	C	Q'ty
	IC201	IC	BR24L08FV-W-X	-----	0	-----	0
	IC671	IC	A42L2604V-45L	GLT4160L04P50TC	1	GLT4160L04P50TC	1
	C201	C CAPACITOR	NCB31CK-104X	-----	0	-----	0
	C631	E CAPACITOR	QEKJ1CM-106Z	QEKJ1EM-106Z	1	QEKJ1EM-106Z	1
	C633	C CAPACITOR	NCB31EK-223X	NCB31HK-223X	1	NCB31HK-223X	1
	C659	C CAPACITOR	NCB31EK-223X	NCB31HK-223X	1	NCB31HK-223X	1
	C673	E CAPACITOR	QEKJ1CM-106Z	QEKJ1EM-106Z	1	QEKJ1EM-106Z	1
	C681	C CAPACITOR	NCB31CK-103X	NCB31HK-103X	1	NCB31HK-103X	1
	C804	C CAPACITOR	NCB31CK-103X	NCB31HK-103X	1	NCB31HK-103X	1
	CN601	CONNECTOR	QGF1008F1-16	QGF1008F2-16	1	QGF1008F2-16	1
	CN651	CONNECTOR	QGF1036F1-17	QGF1036F2-17	1	QGF1036F2-17	1
	FW602	SIN CL C-B WIRE	QJK004-060601	QJK004-060601-E	1	QJK004-060601-E	1
	K651	FERRITE BEADS	QQR1183-001Z	QQR0621-001Z	1	QQR0621-001Z	1
	R299	MG RESISTOR	-----	NRSA63J-473X	1	NRSA63J-473X	1

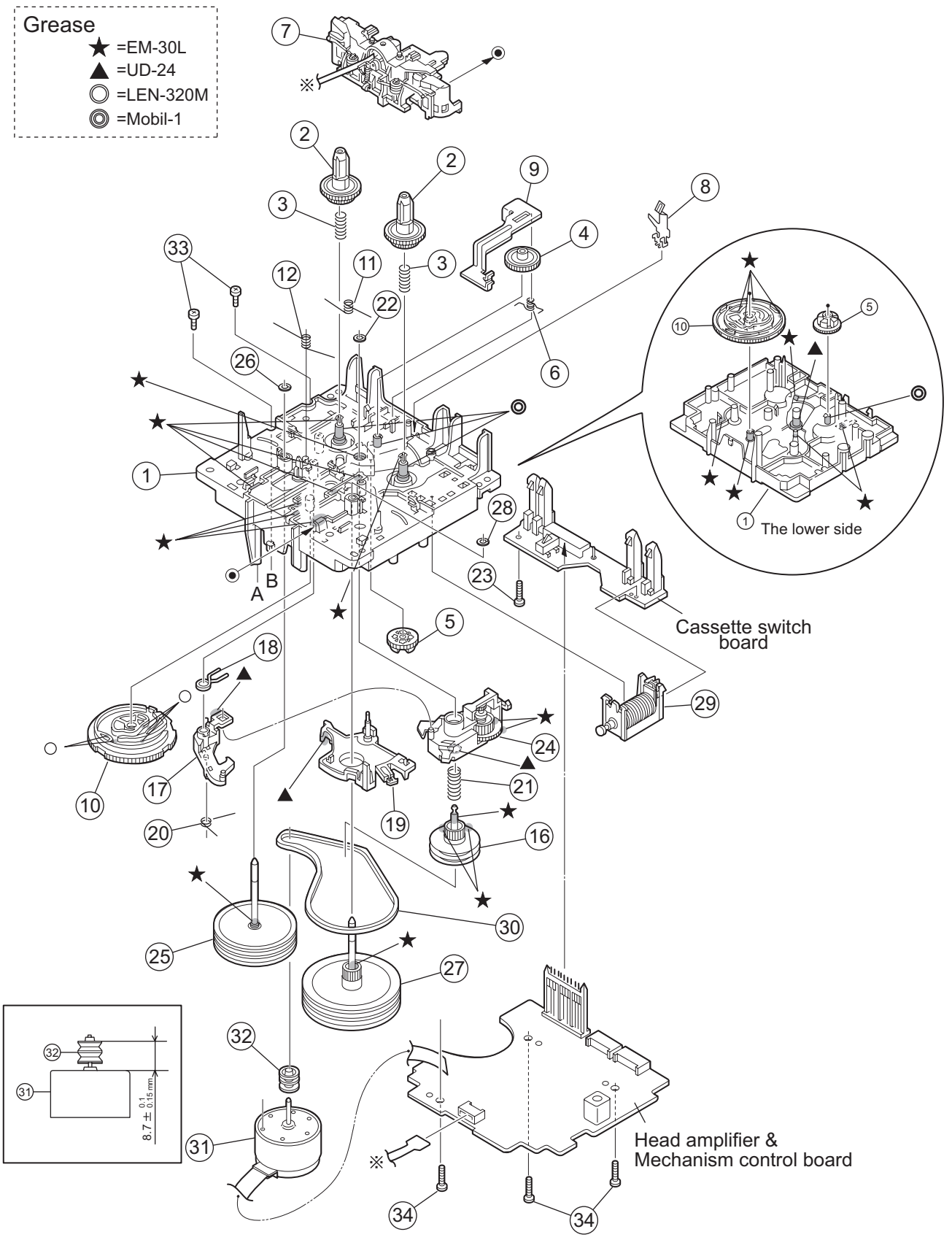
Parts list(Packing accessories) [P3-21 Block NO.M3]

⚠	Item	Parts name	Parts number				
			J (MB333)	J	Q'ty	C	Q'ty
	A1	INST BOOK	LVT1265-001A (ENG)	LVT1265-001A (ENG)	1	LVT1265-002A (ENG,FRE)	1
	A2	REMO-CON UNIT	RM-SRVNB1A	RM-SRVNB1AW2	1	RM-SRVNB1AW2	1
	A4	REGIST CARD	BT-51034-2	BT-51034-2	1	-----	0

Cassette mechanism assembly and parts list

SLC-S41M

Block No. M P M M



The parts without symbol number are not service.

Cassette mechanism

Item	Parts No.	Parts name	
1	VKS1165-00N	CHASSIS B. ASSY	
2	VKS2274-002	REEL GEAR	(×2)
3	VKW5286-002	B.T. SPRING	(×2)
4	VKS5559-001	PLAY IDLE GEAR	
5	VKS5595-002	BLIND	
6	LV42013-001A	EARTH SPRING	
7	SLC-RP1SVM	HEAD MOUNT ASSY	
8	VKY3149-002	CASSETTE SP.	
9	VKM3906-004	PLAY SW.LEVER	
10	VKS1166-003	CONTROL CAM	
11	VKW5279-002	HEAD BASE SP(R)	
12	VKW5280-001	HEAD BASE SP(L)	
16	VKS5603-00H	MAIN PULLEY ASY	
17	VKS3785-001MM	FR ARM	
18	VKW5284-002	SWING SPRING	
19	VKS2278-003	TRIGGER ARM	
20	VKW5301-001	FR SPRING	
21	VKW5266-001	ELEVATOR SPRING	
22	WDL214035-2	SLIT WASHER	
23	QYSBSF2005ZA	TAP SCREW	M2 × 5mm
24	VKS3786-00G	CLUTCH ASSY	
25	VKF3205-00B	F.WHEEL ASSY(R)	
26	WDL183425	SLIT WASHER	
27	VKF3207-00C	F.WHEEL ASSY(L)	
28	WDL173525-6	SLIT WASHER	
29	VKZ3174-00A	DC SOLENOID	
30	LV42836-001A	CAPSTAN BELT	
31	QAR0309-001	D.C.MOTOR	
32	VKR4761-003	MOTOR PULLEY	
33	QYSPSP2604ZA	SCREW	M2.6 × 4mm(×2)
34	QYSBSF2608ZA	TAP SCREW	M2.6 × 8mm(×3)

Head amplifier & Cassette switch board

Item	Parts No.	Parts name	
IC1	SG-105F3/Z1/	PHOTO SENSER	
IC31	BA3126N	IC	
IC32	AN7317	IC	
IC33	BU4094BCF-X	IC	
Q101	DTC114TKA-X	TRANSISTOR	
Q102	DTC114TKA-X	TRANSISTOR	
Q201	DTC114TKA-X	TRANSISTOR	
Q202	DTC114TKA-X	TRANSISTOR	
Q301	DTA144EKA-X	DIGI TRANSISTOR	
Q302	2SC2001/K/-T	TRANSISTOR	
Q303	2SC2001/K/-T	TRANSISTOR	
Q304	2SC2001/LK/-T	TRANSISTOR	
Q305	2SC2001/LK/-T	TRANSISTOR	
Q306	2SC2412K/RS/-X	TRANSISTOR	
Q307	2SC2412K/RS/-X	TRANSISTOR	
Q308	2SC2412K/RS/-X	TRANSISTOR	
Q309	2SC2412K/RS/-X	TRANSISTOR	
Q321	DTC144EKA-X	DIGI TRANSISTOR	
Q323	2SC2412K/RS/-X	TRANSISTOR	
Q371	2SA952/LK/-T	TRANSISTOR	
Q372	DTC124EKA-X	DIGI TRANSISTOR	
Q375	2SB562/C/-T	TRANSISTOR	
Q376	2SC2412K/RS/-X	TRANSISTOR	
D1	1SR139-400-T2	SI DIODE	
D301	MA152WA-X	DIODE	
D309	MA704A-X	S.K.DIODE	
D375	HZM5.1NB2-X	Z DIODE	
C101	NCS21HJ-821X	C CAPACITOR	820pF 50V J
C102	NCS21HJ-221X	C CAPACITOR	220pF 50V J
C103	QEKJ0JM-227Z	E CAPACITOR	220uF 6.3V M
C104	NCB21HK-333X	C CAPACITOR	0.033uF 50V K
C105	NCB21HK-222X	C CAPACITOR	2200pF 50V K
C106	QEKJ1CM-106Z	E CAPACITOR	10uF 16V M
C107	NCS21HJ-561X	C CAPACITOR	560pF 50V J
C108	QEKJ1EM-475Z	E CAPACITOR	4.7uF 25V M
C109	QEKJ1EM-475Z	E CAPACITOR	4.7uF 25V M
C110	NCB21HK-682X	C CAPACITOR	6800pF 50V K
C111	NCB21HK-122X	C CAPACITOR	1200pF 50V K
C112	NCB21EK-683X	C CAPACITOR	0.068uF 25V K
C113	NCB21HK-222X	C CAPACITOR	2200pF 50V K
C121	NCS21HJ-331X	C CAPACITOR	330pF 50V J
C201	NCS21HJ-821X	C CAPACITOR	820pF 50V J
C202	NCS21HJ-221X	C CAPACITOR	220pF 50V J
C203	QEKJ0JM-227Z	E CAPACITOR	220uF 6.3V M
C204	NCB21HK-333X	C CAPACITOR	0.033uF 50V K
C205	NCB21HK-222X	C CAPACITOR	2200pF 50V K
C206	QEKJ1CM-106Z	E CAPACITOR	10uF 16V M
C207	NCS21HJ-561X	C CAPACITOR	560pF 50V J
C208	QEKJ1EM-475Z	E CAPACITOR	4.7uF 25V M
C209	QEKJ1EM-475Z	E CAPACITOR	4.7uF 25V M
C210	NCB21HK-682X	C CAPACITOR	6800pF 50V K
C211	NCB21HK-122X	C CAPACITOR	1200pF 50V K
C212	NCB21EK-683X	C CAPACITOR	0.068uF 25V K
C213	NCB21HK-222X	C CAPACITOR	2200pF 50V K
C221	NCS21HJ-331X	C CAPACITOR	330pF 50V J

Item	Parts No.	Parts name	
C301	QEKJ1AM-107Z	E CAPACITOR	100uF 10V M
C302	NCB21HK-393X	C CAPACITOR	0.039uF 50V K
C303	QEKJ0JM-227Z	E CAPACITOR	220uF 6.3V M
C304	QEKJ1CM-226Z	E CAPACITOR	22uF 16V M
C305	QEKJ1CM-226Z	E CAPACITOR	22uF 16V M
C306	QEKJ1CM-476Z	E CAPACITOR	47uF 16V M
C307	NCB21HK-103X	C CAPACITOR	0.01uF 50V K
C308	NCB21HK-562X	C CAPACITOR	5600pF 50V K
C309	NCB21HK-562X	C CAPACITOR	5600pF 50V K
C310	NCB21HK-223X	C CAPACITOR	0.022uF 50V K
C311	NCB21HK-682X	C CAPACITOR	6800pF 50V K
C313	QEKJ1AM-107Z	E CAPACITOR	100uF 10V M
C314	QCZ0202-155Z	C CAPACITOR	1.5uF 25V Z
C315	QCZ0202-155Z	C CAPACITOR	1.5uF 25V Z
C316	QFG32AJ-103Z	PP CAPACITOR	0.01uF 100V J
C318	NCB21HK-103X	C CAPACITOR	0.01uF 50V K
C319	QFG32AJ-821Z	PP CAPACITOR	820pF 100V J
C321	NCB21HK-103X	C CAPACITOR	0.01uF 50V K
C322	QFG32AJ-152Z	PP CAPACITOR	1500pF 100V J
C331	QEKJ1CM-476Z	E CAPACITOR	47uF 16V M
C351	QEKJ1CM-106Z	E CAPACITOR	10uF 16V M
C371	QEKJ1EM-475Z	E CAPACITOR	4.7uF 25V M
C374	QEKJ1AM-107Z	E CAPACITOR	100uF 10V M
C375	QEKJ1AM-107Z	E CAPACITOR	100uF 10V M
C376	NCB21HK-103X	C CAPACITOR	0.01uF 50V K
C391	NCB31HK-681X	C CAPACITOR	680pF 50V K
R101	NRSA63J-220X	MG RESISTOR	22Ω 1/16W J
R102	NRSA63J-182X	MG RESISTOR	1.8kΩ 1/16W J
R103	NRSA63J-242X	MG RESISTOR	2.4kΩ 1/16W J
R104	NRSA63J-122X	MG RESISTOR	1.2kΩ 1/16W J
R105	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J
R106	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J
R107	NRSA63J-123X	MG RESISTOR	12kΩ 1/16W J
R108	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J
R109	NRSA63J-122X	MG RESISTOR	1.2kΩ 1/16W J
R110	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
R111	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J
R112	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
R113	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
R114	NRSA63J-272X	MG RESISTOR	2.7kΩ 1/16W J
R116	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R121	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R201	NRSA63J-220X	MG RESISTOR	22Ω 1/16W J
R202	NRSA63J-182X	MG RESISTOR	1.8kΩ 1/16W J
R203	NRSA63J-242X	MG RESISTOR	2.4kΩ 1/16W J

Item	Parts No.	Parts name	
R204	NRSA63J-122X	MG RESISTOR	1.2kΩ 1/16W J
R205	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J
R206	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J
R207	NRSA63J-123X	MG RESISTOR	12kΩ 1/16W J
R208	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J
R209	NRSA63J-122X	MG RESISTOR	1.2kΩ 1/16W J
R210	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
R211	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J
R212	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
R213	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
R214	NRSA63J-272X	MG RESISTOR	2.7kΩ 1/16W J
R216	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R221	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R301	NRS181J-221X	MG RESISTOR	220Ω 1/8W J
R303	NRSA63J-393X	MG RESISTOR	39kΩ 1/16W J
R304	NRS181J-101X	MG RESISTOR	100Ω 1/8W J
R305	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
R306	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
R310	NRS181J-560X	MG RESISTOR	56Ω 1/8W J
R311	NRS181J-560X	MG RESISTOR	56Ω 1/8W J
R313	NRSA63J-3R3X	MG RESISTOR	3.3Ω 1/16W J
R314	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J
R315	NRSA63J-100X	MG RESISTOR	10Ω 1/16W J
R316	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J
R317	NRSA63J-100X	MG RESISTOR	10Ω 1/16W J
R319	NRSA63J-152X	MG RESISTOR	1.5kΩ 1/16W J
R322	NRSA63J-152X	MG RESISTOR	1.5kΩ 1/16W J
R327	NRSA63J-474X	MG RESISTOR	470kΩ 1/16W J
R332	NRSA63J-123X	MG RESISTOR	12kΩ 1/16W J
R333	NRSA63J-123X	MG RESISTOR	12kΩ 1/16W J
R335	NRSA63J-152X	MG RESISTOR	1.5kΩ 1/16W J
R336	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
R337	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J
R338	NRSA63J-392X	MG RESISTOR	3.9kΩ 1/16W J
R339	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
R340	NRS181J-391X	MG RESISTOR	390Ω 1/8W J
R341	NRSA63J-123X	MG RESISTOR	12kΩ 1/16W J
R342	NRSA63J-203X	MG RESISTOR	20kΩ 1/16W J
R343	NRSA63J-183X	MG RESISTOR	18kΩ 1/16W J
R351	NRSA63J-683X	MG RESISTOR	68kΩ 1/16W J
R352	NRSA63J-912X	MG RESISTOR	9.1kΩ 1/16W J
R371	NRSA63J-123X	MG RESISTOR	12kΩ 1/16W J
R372	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R375	NRSA02J-151X	MG RESISTOR	150Ω 1/10W J
R376	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
VR31	QVP0008-503Z	TRIM RESISTOR	50kΩ

Item	Parts No.	Parts name	
VR32	QVP0008-503Z	TRIM RESISTOR	50kΩ
VR37	QVP0008-103Z	TRIM RESISTOR	10kΩ
L301	QQR0620-001	OSC COIL(BIAS)	
L303	QQL01BK-100Z	COIL	10uH K
CN1	QGB2011L1-10	CONNECTOR	B-B (1-10)
CN31	QGF1201F3-06	CONNECTOR	FFC/FPC (1-6)
CN32	QGB2011M1-10	CONNECTOR	B-B (1-10)
CN33	QGF1205F1-09	CONNECTOR	FFC/FPC (1-9)
CN34	QGF1201F3-10	CONNECTOR	FFC/FPC (1-10)
P1	QNZ0104-001	POST PIN	
SW1	QSW0832-001	CASS.SWITCH	
SW2	QSW0832-001	CASS.SWITCH	
SW4	QSW0832-001	CASS.SWITCH	
SW5	QSW0832-001	CASS.SWITCH	
SW6	QSW0859-001	DETECT SWITCH	

SECTION 3
DISASSEMBLY

Please refer to "RV-NB1 (No.MB333)" about this section.

SECTION 4
ADJUSTMENT

Please refer to "RV-NB1 (No.MB333)" about this section.

SECTION 5
TROUBLESHOOTING

Please refer to "RV-NB1 (No.MB333)" about this section.

JVC
Victor Company of Japan, Limited
Audio/Video Systems Category 10-1,1chome,Ohwatari-machi,Maebashi-city,371-8543,Japan

(No.MB333B)

Printed in Japan
VPT

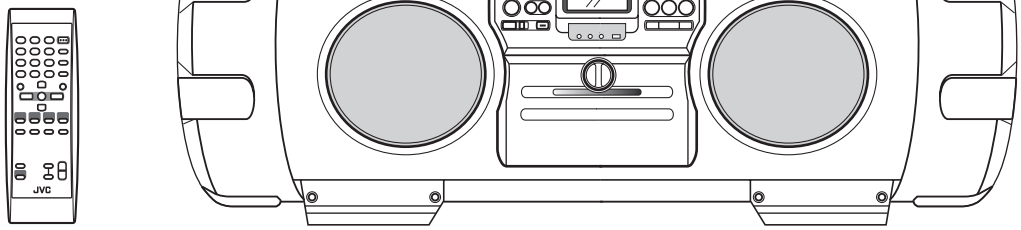
JVC

SERVICE MANUAL

POWERED WOOFER CD SYSTEM

RV-NB1

Area suffix	
J	U.S.A.
C	Canada



MP3 PLAYBACK

COMPACT disc DIGITAL AUDIO

TABLE OF CONTENTS

1 PRECAUTION 1-3
2 SPECIFIC SERVICE INSTRUCTIONS 1-6
3 DISASSEMBLY 1-7
4 ADJUSTMENT 1-21
5 TROUBLESHOOTING 1-26

COPYRIGHT © 2004 Victor Company of Japan, Limited

No.MB333
2004/10

SPECIFICATION

Amplifier	Output Power	6 W per channel, min. RMS, at 4 Ω from 150Hz to 15kHz with no more than 10% total harmonic distortion.
		20 W per channel woofer, min. RMS into 4 Ω at 60 Hz with no more than 10% total harmonic distortion.
	Input Sensitivity/Impedance (1 kHz)	AUX IN:300 mV/47 kΩ
	MIC/GUITAR INPUT: Switchable	MIC:200 Ω - 2 kΩ (6.3 mm dia. plug) GUITAR:100 kΩ - 1 MΩ (6.3 mm dia. plug)
	Output Sensitivity/Impedance (1 kHz)	Phones:16 Ω - 1 kΩ 0 - 12 mW/ch output into 32 Ω
Cassette Deck	Frequency Response	Type II (High position):60 Hz - 14 kHz
	Wow and Flutter	0.15% (WRMS)
Disc Player	Dynamic range	90 dB
	Signal-to-noise ratio	95 dB
	Wow and Flutter	Unmeasurable
Tuner	FM Tuner	87.5 MHz - 108.0 MHz
	AM Tuner	530 kHz - 1 710 kHz
	Antenna	FM telescopic antenna Ferrite core antenna for AM
Speakers	Full range	8 cm (3 - 3/16") × 2, 4 Ω
	Super woofer	16 cm (6 - 5/16") × 2, 4 Ω
General	Dimensions	690 mm × 239 mm × 296 mm (W/H/D) (27 - 3/16" × 9 - 7/16" × 11 - 11/16")
	Mass	9.5 kg (21 lbs) (without batteries) 10.6 kg (23.4 lbs) (with batteries)
Power Specifications	Power Requirements	AC 120 V , 60 Hz DC15V ("R20/D (13F)" batteries (10)) External DC12V (car battery via optional CA-R120 car adapter)
	Power Consumption	50 W (power on mode) 1.6 W (in standby mode)

Design and specifications are subject to change without notice.

SECTION 1
PRECAUTION

1.1 Safety Precautions

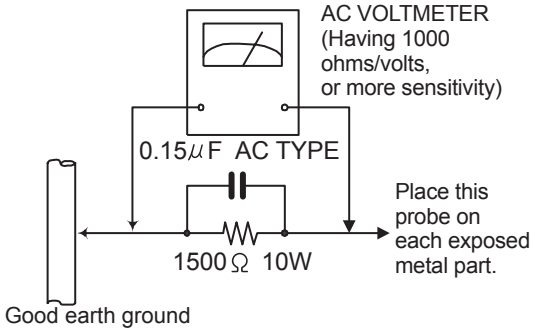
(1) This design of this product contains special hardware and many circuits and components specially for safety purposes. For continued protection, no changes should be made to the original design unless authorized in writing by the manufacturer. Replacement parts must be identical to those used in the original circuits. Services should be performed by qualified personnel only.

(2) Alterations of the design or circuitry of the product should not be made. Any design alterations of the product should not be made. Any design alterations or additions will void the manufacturers warranty and will further relieve the manufacture of responsibility for personal injury or property damage resulting therefrom.

(3) Many electrical and mechanical parts in the products have special safety-related characteristics. These characteristics are often not evident from visual inspection nor can the protection afforded by them necessarily be obtained by using replacement components rated for higher voltage, wattage, etc. Replacement parts which have these special safety characteristics are identified in the Parts List of Service Manual. Electrical components having such features are identified by shading on the schematics and by (⚠) on the Parts List in the Service Manual. The use of a substitute replacement which does not have the same safety characteristics as the recommended replacement parts shown in the Parts List of Service Manual may create shock, fire, or other hazards.

(4) The leads in the products are routed and dressed with ties, clamps, tubings, barriers and the like to be separated from live parts, high temperature parts, moving parts and/or sharp edges for the prevention of electric shock and fire hazard. When service is required, the original lead routing and dress should be observed, and it should be confirmed that they have been returned to normal, after reassembling.

(5) Leakage shock hazard testing
After reassembling the product, always perform an isolation check on the exposed metal parts of the product (antenna terminals, knobs, metal cabinet, screw heads, headphone jack, control shafts, etc.) to be sure the product is safe to operate without danger of electrical shock.Do not use a line isolation transformer during this check.
- Plug the AC line cord directly into the AC outlet. Using a "Leakage Current Tester", measure the leakage current from each exposed metal parts of the cabinet, particularly any exposed metal part having a return path to the chassis, to a known good earth ground. Any leakage current must not exceed 0.5mA AC (r.m.s.).
- Alternate check method
Plug the AC line cord directly into the AC outlet. Use an AC voltmeter having, 1,000Ω per volt or more sensitivity in the following manner. Connect a 1,500Ω 10W resistor paralleled by a 0.15μF AC-type capacitor between an exposed metal part and a known good earth ground.
Measure the AC voltage across the resistor with the AC voltmeter.
Move the resistor connection to each exposed metal part, particularly any exposed metal part having a return path to the chassis, and measure the AC voltage across the resistor. Now, reverse the plug in the AC outlet and repeat each measurement. Voltage measured any must not exceed 0.75 V AC (r.m.s.). This corresponds to 0.5 mA AC (r.m.s.).



1.2 Warning

(1) This equipment has been designed and manufactured to meet international safety standards.
(2) It is the legal responsibility of the repairer to ensure that these safety standards are maintained.
(3) Repairs must be made in accordance with the relevant safety standards.
(4) It is essential that safety critical components are replaced by approved parts.
(5) If mains voltage selector is provided, check setting for local voltage.

1.3 Caution

Burrs formed during molding may be left over on some parts of the chassis.
Therefore, pay attention to such burrs in the case of preforming repair of this system.

1.4 Critical parts for safety

In regard with component parts appearing on the silk-screen printed side (parts side) of the PWB diagrams, the parts that are printed over with black such as the resistor (▬), diode (▮) and ICP (●) or identified by the " ⚠ " mark nearby are critical for safety. When replacing them, be sure to use the parts of the same type and rating as specified by the manufacturer.
(This regulation dose not Except the J and C version)

1.5 Preventing static electricity

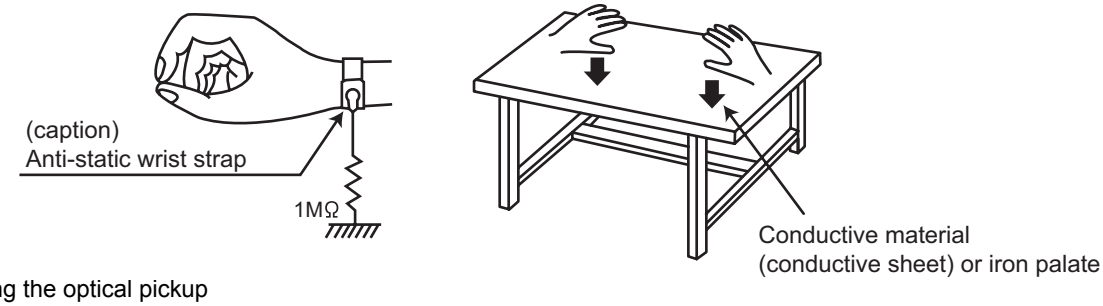
Electrostatic discharge (ESD), which occurs when static electricity stored in the body, fabric, etc. is discharged, can destroy the laser diode in the traverse unit (optical pickup). Take care to prevent this when performing repairs.

1.5.1 Grounding to prevent damage by static electricity

Static electricity in the work area can destroy the optical pickup (laser diode) in devices such as laser products.
Be careful to use proper grounding in the area where repairs are being performed.

(1) Ground the workbench
Ground the workbench by laying conductive material (such as a conductive sheet) or an iron plate over it before placing the traverse unit (optical pickup) on it.

(2) Ground yourself
Use an anti-static wrist strap to release any static electricity built up in your body.



(3) Handling the optical pickup
- In order to maintain quality during transport and before installation, both sides of the laser diode on the replacement optical pickup are shorted. After replacement, return the shorted parts to their original condition. (Refer to the text.)
- Do not use a tester to check the condition of the laser diode in the optical pickup. The tester's internal power source can easily destroy the laser diode.

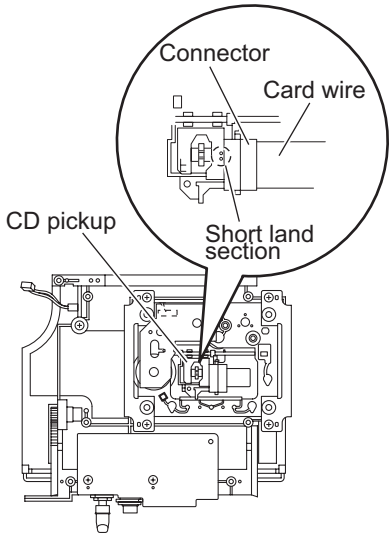
1.6 Handling the traverse unit (optical pickup)

(1) Do not subject the traverse unit (optical pickup) to strong shocks, as it is a sensitive, complex unit.
(2) Cut off the shorted part of the flexible cable using nippers, etc. after replacing the optical pickup. For specific details, refer to the replacement procedure in the text. Remove the anti-static pin when replacing the traverse unit. Be careful not to take too long a time when attaching it to the connector.
(3) Handle the flexible cable carefully as it may break when subjected to strong force.
(4) I t is not possible to adjust the semi-fixed resistor that adjusts the laser power. Do not turn it.

1.7 Attention when traverse unit is decomposed

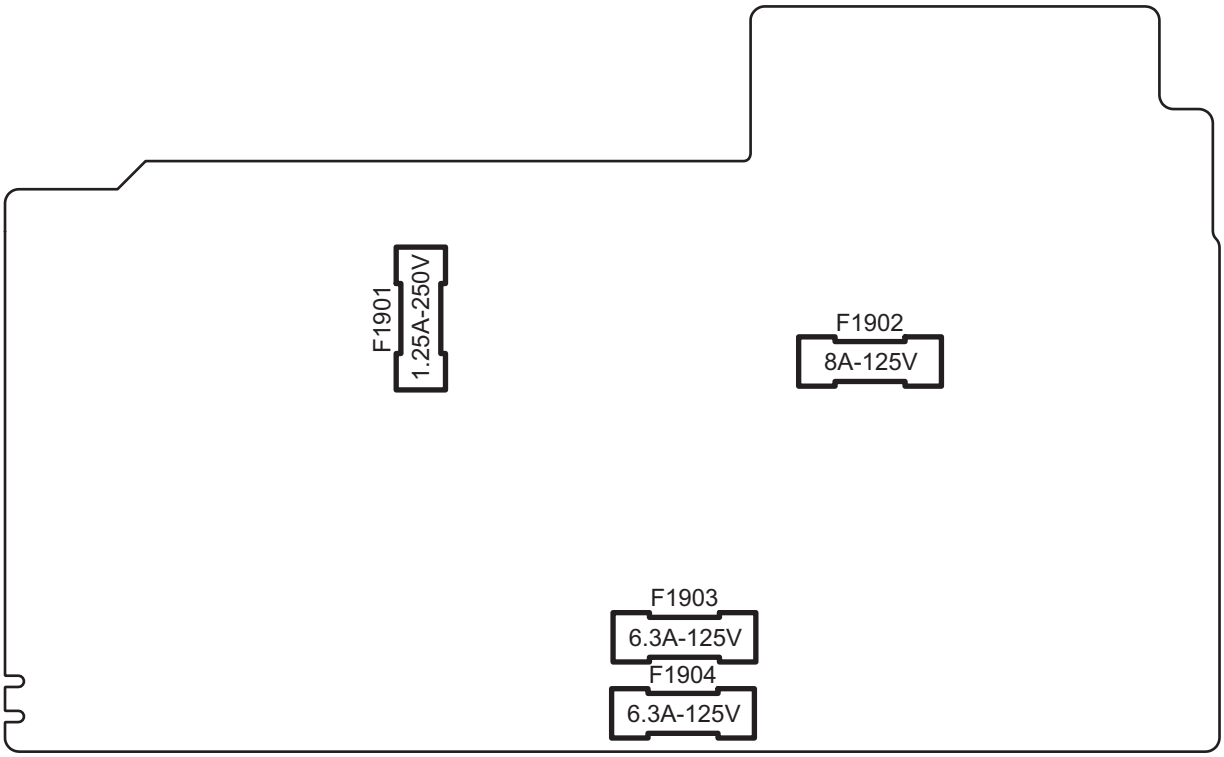
***Please refer to "Disassembly method" in the text for the pickup unit.**

- Apply solder to the short land sections before the flexible wire is disconnected from the connecto on the servo board. (If the flexible wire is disconnected without applying solder, the pickup may be destroyed by static electricity.)
- In the assembly, be sure to remove solder from the short land sections after connecting the flexible wire.

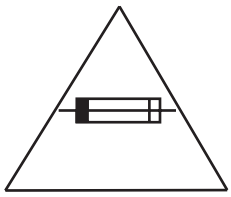


1.8 Importance administering point on the safety

Power supply board



For USA and Canada / pour Etats - Unis d' Amérique et Canada



Caution: For continued protection against risk of fire, replace only with same type 1.25 A/250 V for F1901, 8 A/125 V for F1902, 6.3 A/125 V for F1903 and F1904.
This symbol specifies type of fast operating fuse.

Précaution: Pour eviter risques de feux, remplacez le fusible de sureté de F1901 comme le meme type que 1,25 A/250 V, 8 A/125 V pour F1902, et 6,3 A/125 V pour F1903 et F1904.
Ce sont des fusibles sûretes qui functionnes rapide.

SECTION 2
SPECIFIC SERVICE INSTRUCTIONS

This service manual does not describe SPECIFIC SERVICE INSTRUCTIONS.

SECTION 3
DISASSEMBLY

3.1 Main body section

3.1.1 Removing the side protect assemblies (See Fig.1)

From the both sides of the main body, remove the twelve screws **A** attaching the side protect assemblies.

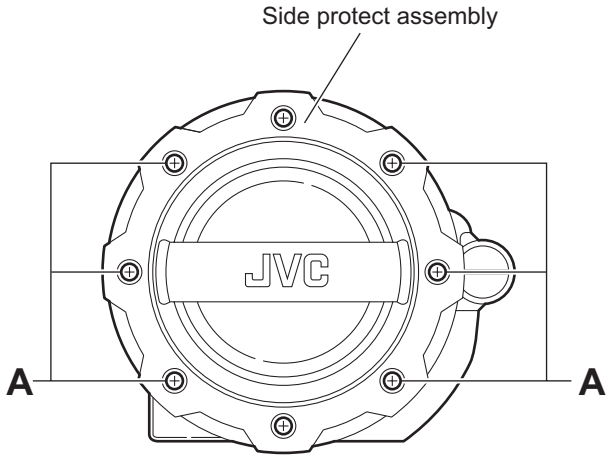


Fig.1

3.1.2 Removing the front cabinet assembly (See Figs.2 and 3)

- Remove the side protect assemblies.
  (1) From the both sides of the main body, remove the two screws **B** attaching the woofer speakers. (See Fig.2.)
  (2) From the back side of the main body, remove the ten screws **C** attaching the front cabinet assembly to the main body. (See Fig.3.)
  (3) Remove the front cabinet assembly from the main body in the direction of the arrow. (See Fig.2.)

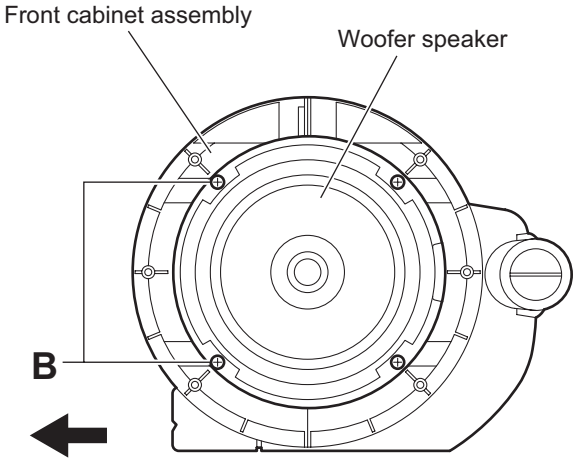


Fig.2

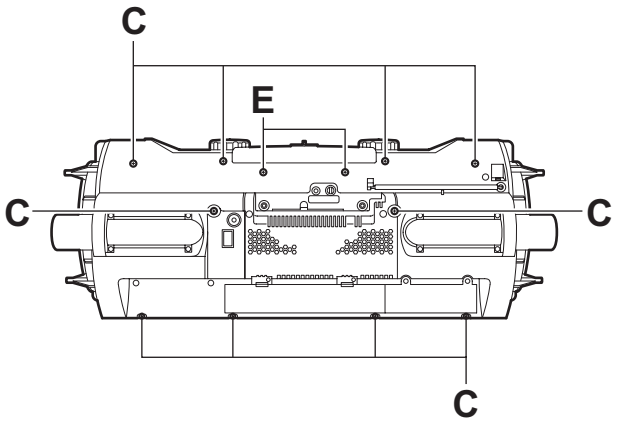


Fig.3

3.1.3 Removing the cassette mechanism assembly (See Fig.4)

- Remove the side protect assemblies and front cabinet assembly.
  (1) From the inside of the main body, remove the four screws **D** attaching the cassette mechanism assembly.
  (2) From the forward side of the display/control board, disconnect the card wires from the connectors (CN405, CN406).
  (3) Take out the cassette mechanism assembly from the main body.

3.1.4 Removing the CD mechanism assembly (See Figs.3 and 4)

- Remove the side protect assemblies, front cabinet assembly and cassette mechanism assembly.
  (1) From the back side of the main body, remove the two screws **E** attaching the CD mechanism assembly. (See Fig.3.)
  (2) From the forward side of the display/control board, disconnect the card wire from the connector CN403. (See Fig.4.)
  (3) From the reverse side of the display/control board, disconnect the card wires from the connectors (CN407, CN408). (See Fig.4.)
  (4) Take out the CD mechanism assembly from the main body.

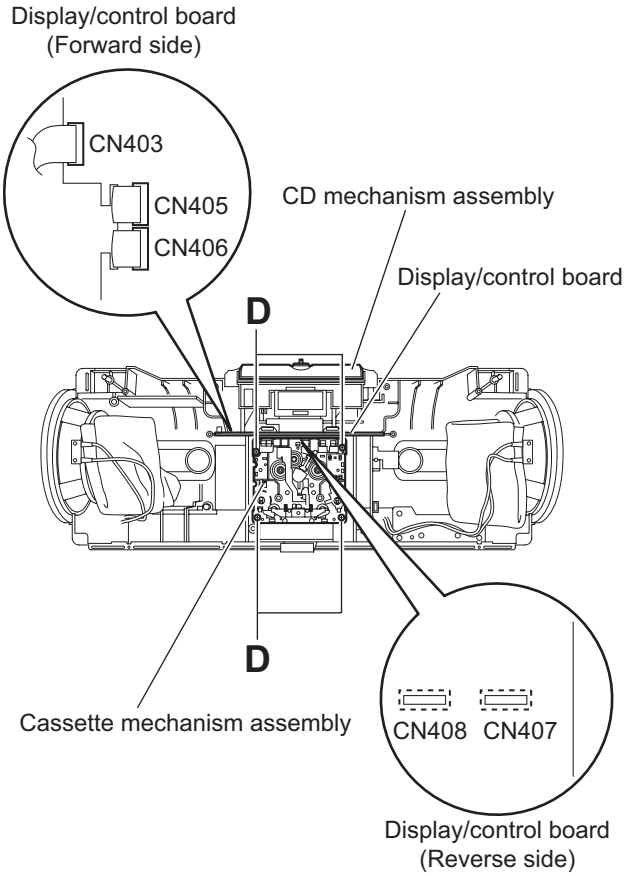


Fig.4

3.1.5 Removing the equalizer amplifier board (See Fig.5)

- Remove the side protect assemblies, front cabinet assembly and cassette mechanism assembly.
  (1) Disconnect the card wires from the connectors (CN407, CN408) on the display/control board.
  (2) Remove the two screws **F** and two screws **F'** attaching the equalizer amplifier board.

  Reference:

  When attaching the screws **F'**, attach the head shield with them.
  (3) Take out the equalizer amplifier board from the main body.

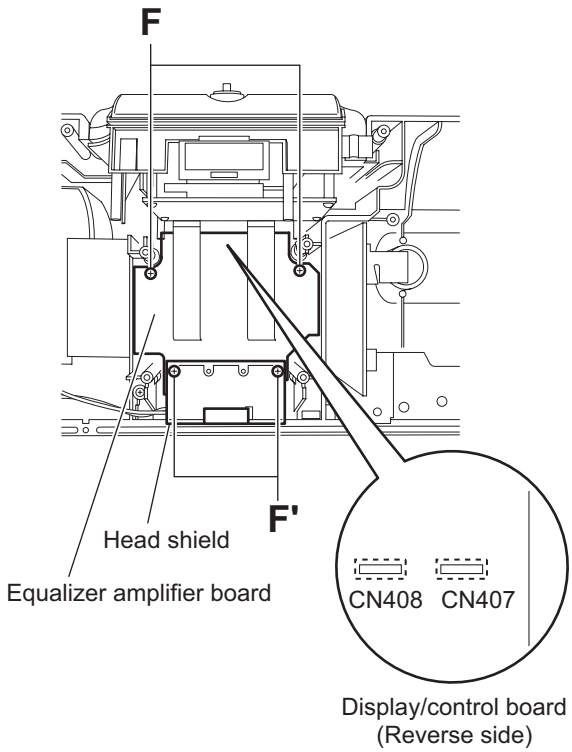


Fig.5

3.1.6 Removing the power supply board (See Fig.6)

- Remove the side protect assemblies and front cabinet assembly.
  (1) From the forward side of the power supply board, disconnect the wires from the connectors (CN191, CN193 to CN195).
  (2) Remove the two screws **G** attaching the power supply board.
  (3) Take out the power supply board from the main body.

3.1.7 Removing the power transformer (See Fig.6)

- Remove the side protect assemblies and front cabinet assembly.
  (1) From the forward side of the power supply board, disconnect the wires from the connectors (CN194, CN195).
  (2) Remove the three screws **H** and screw **H'** attaching the power transformer.

  Reference:
  When attaching the screw **H'**, attach the wire holder with it.
  (3) Take out the power transformer from the main body.

3.1.8 Removing the power amplifier board (See Figs.6 to 8)

- Remove the side protect assemblies, front cabinet assembly, cassette mechanism assembly, equalizer amplifier board, power supply board and power transformer.
  (1) From the back side of the woofer speakers, disconnect the wires from the woofer speaker terminals.
  (2) Remove the two screws **J** attaching the cover and remove the cover. (See Fig.6.)
  (3) From the back side of the main body, remove the four screws **K** attaching the grille. (See Fig.7.)
  (4) Remove the four screws **L** attaching the heat sink. (See Fig.8.)
  (5) Take out the power amplifier board with the heat sink.

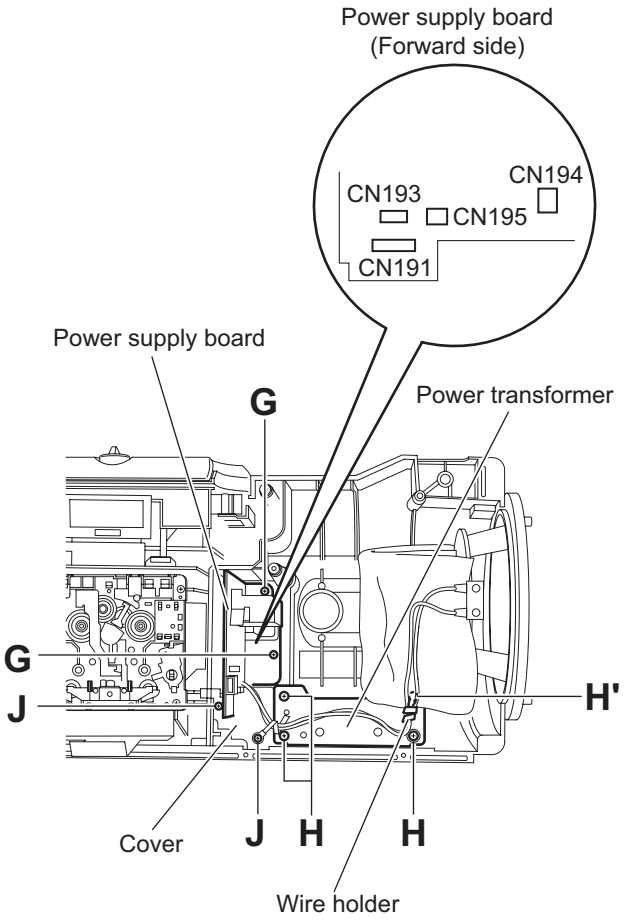


Fig.6

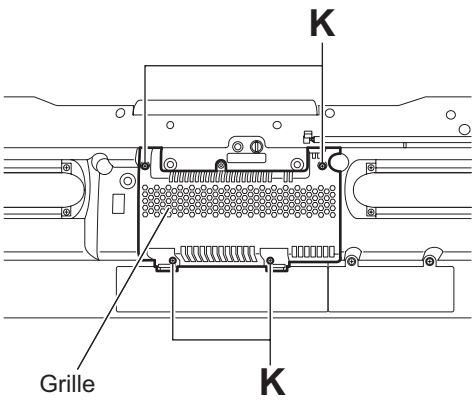


Fig.7

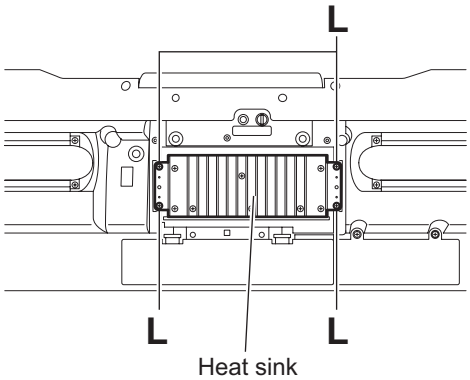


Fig.8

3.1.9 Removing the tuner board (See Fig.9)

- Remove the side protect assemblies and front cabinet assembly.
  (1) Disconnect the antenna wire from the terminal TP1 on the tuner board.
  (2) Remove the screw **M** attaching the tuner board.
  (3) Draw out the tuner board toward this side and disconnect the card wire from the connector CN1 on the tuner board.
  (4) Take out the tuner board from the main body.

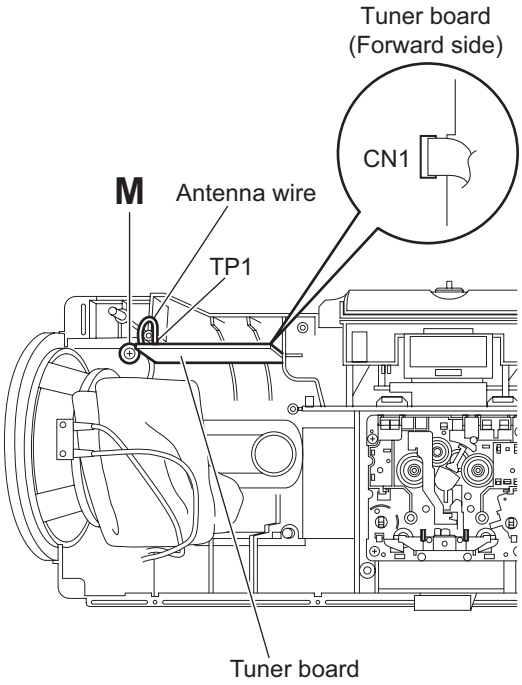


Fig.9

3.1.10 Removing the display/control board (See Fig.10)

- Remove the side protect assemblies, front cabinet assembly, cassette mechanism assembly and CD mechanism assembly.
  (1) From the bottom side of the CD mechanism assembly, remove the four screws **N** attaching the display/control board.
  (2) From the forward side of the display/control board, disconnect the card wire from the connector CN404.
  (3) Disconnect the wire from the connector CN751 on the guitar and mic. jack board.

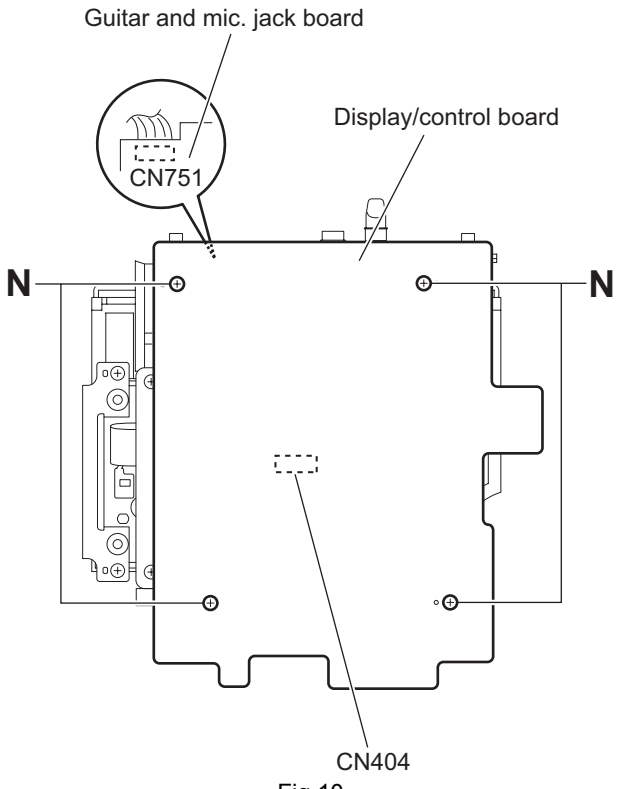


Fig.10

3.1.11 Removing the CD servo board (See Figs.11 and 12)

- Remove the side protect assemblies, front cabinet assembly, cassette mechanism assembly, CD mechanism assembly and display/control board.
  (1) Remove the four screws **P** attaching the CD servo board. (See Fig.11.)
  (2) From the forward side of the CD servo board, disconnect the wire from the connector CN603. (See Fig.11.)
  (3) From the forward side of the spindle/feed motor board, disconnect the wire from the connector P011. (See Fig.12.)
  (4) Solder the short land section **a** on the flexible wire. (See Fig.12)
  (5) Disconnect the card wire from the connector on the CD pickup.

Caution:

- Solder the short land section **a** on the flexible wire before disconnecting the card wire from the connector on the CD pickup. If the card wire is disconnected without attaching solder, the CD pickup may be destroyed by static electricity. (See Fig.12.)
- When attaching the CD servo board, be sure to remove solders from the short land section **a** after connecting the card wire to the connector on the CD pickup. (See Fig.12.)

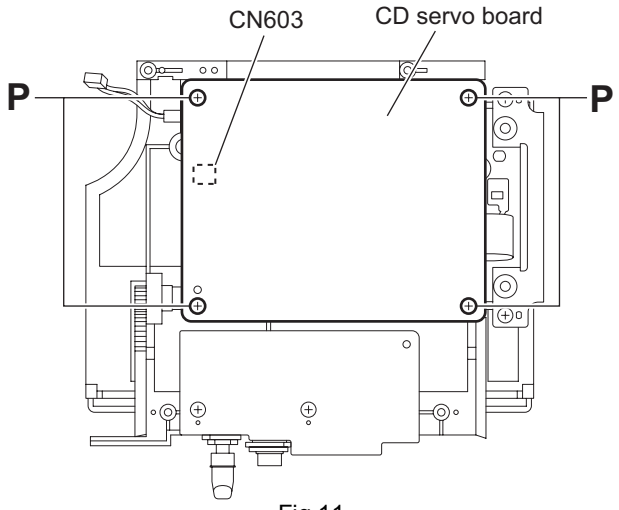


Fig.11

3.1.12 Removing the CD traverse mechanism assembly (See Fig.12)

- Remove the side protect assemblies, front cabinet assembly, cassette mechanism assembly, CD mechanism assembly, display/control board and CD servo board.
  (1) Remove the four screws **Q** attaching the CD traverse mechanism assembly.
  (2) Take out the CD traverse mechanism assembly from the CD mechanism assembly.

3.1.13 Removing the guitar and mic. jack board (See Figs.12 and 13)

- Remove the side protect assemblies, front cabinet assembly, cassette mechanism assembly, CD mechanism assembly and display/control board.
  (1) Remove the two screws **R** attaching the guitar and mic. jack board. (See Fig.12.)
  (2) From the back side of the CD mechanism assembly, pull out the volume knob. (See Fig.13.)
  (3) Remove the nut and washer. (See Fig.13.)
  (4) Remove the pressure plate in the direction of the arrow. (See Fig.13.)
  (5) Remove the screw **S** attaching the bracket. (See Fig.13.)
  (6) Remove the guitar and mic. jack board from the CD mechanism assembly.

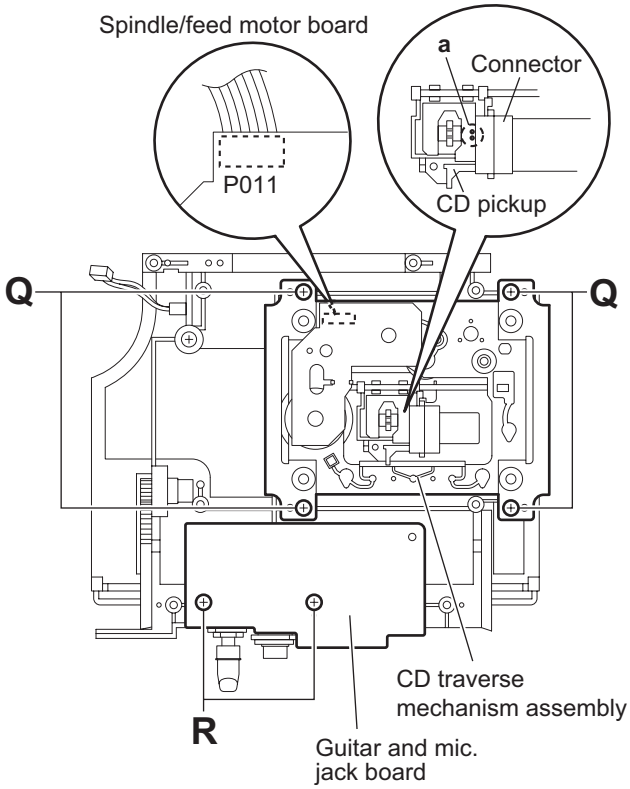


Fig.12

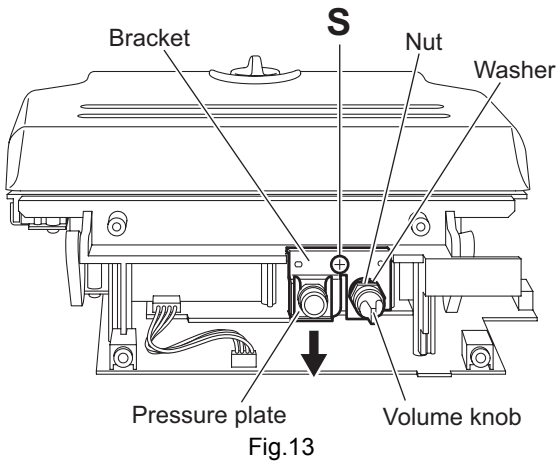


Fig.13

3.1.14 Removing the speaker (See Figs.14 and 15)

- Remove the side protect assemblies and front cabinet assembly.
  (1) From the inside of the front cabinet assembly, remove the four screws **T** attaching the cap. (See Fig.14.)
  (2) Remove the four screws **U** attaching the speaker. (See Fig.15.)
  (3) Disconnect the wires from the speaker terminal on the speaker. (See Fig.15.)
  (4) Take out the speaker from the front cabinet assembly.

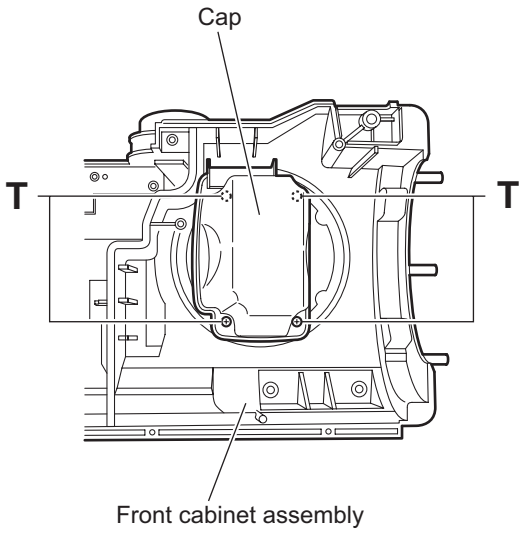


Fig.14

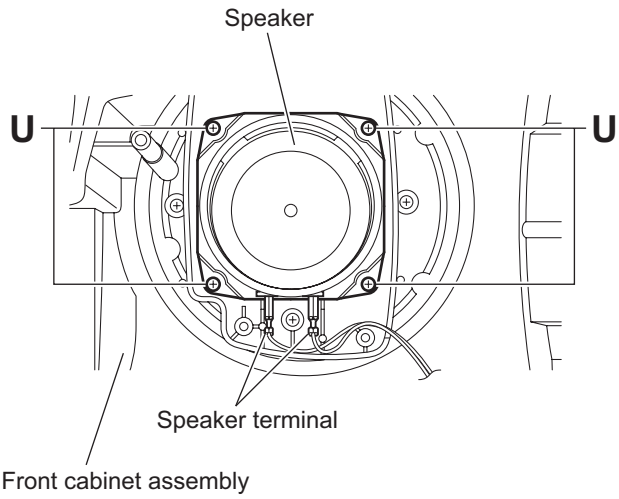


Fig.15

3.1.15 Removing the woofer speaker (See Fig.16)

- Remove the side protect assemblies.
  (1) Remove the four screws **V** attaching the woofer speaker.
  (2) Take out the woofer speaker from the main body.
  (3) From the back side of the woofer speaker, disconnect the wires from the speaker terminal.

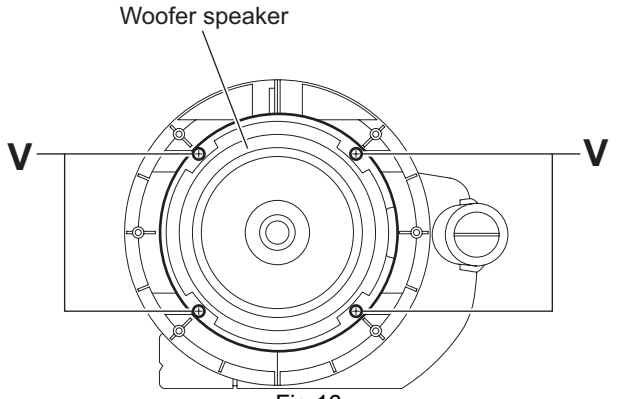


Fig.16

3.1.16 Removing the key board, volume encoder board and woofer encoder board (See Figs.17 and 18)

- Remove the side protect assemblies and front cabinet assembly.
  (1) From the top side of the front cabinet assembly, pull out the volume and super woofer volume knobs. (See Fig.18.)
  (2) Remove the nuts and washers. (See Fig.17.)
  (3) Remove the eight screws **W** attaching the key board. (See Fig.18.)
  (4) Take out the key board with volume encoder and woofer volume encoder boards.

3.1.17 Removing the front cover assembly (See Figs.17 and 18)

- Remove the side protect assemblies, front cabinet assembly and key board.

Reference:

Remove the volume encoder board and woofer volume encoder board as required.

(1) Remove the two screws **X** attaching the front cover assembly. (See Fig.18.)
(2) Release the five hooks **b** and remove the front cover assembly in the direction of the arrow. (See Figs.17 and 18.)

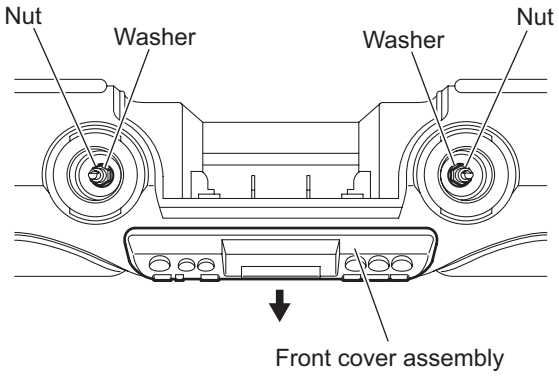


Fig.17

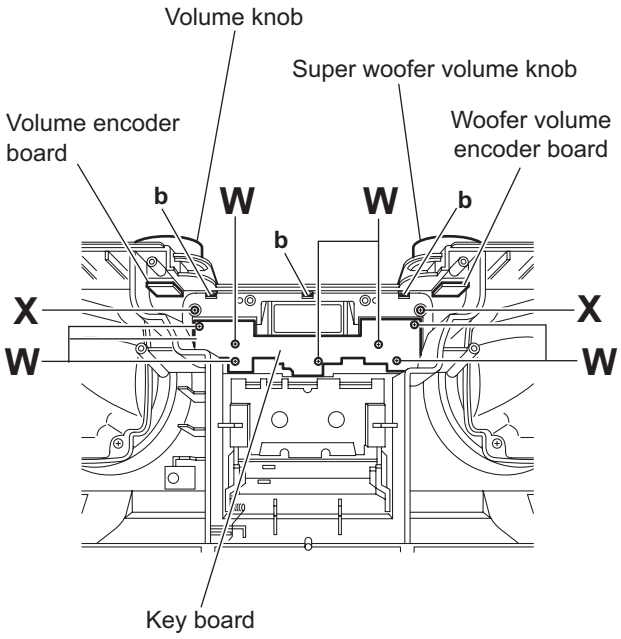


Fig.18

3.2 CD traverse mechanism section

• Remove the CD traverse mechanism assembly. (See "3.1.12 Removing the CD traverse mechanism assembly".)

3.2.1 Removing the CD pick (See Figs.1 and 2)

(1) Remove the CD mechanism holders in the direction of the arrow. (See Fig.1.)
(2) Remove the four screws **A** attaching the pick cover. (See Fig.1.)
(3) Remove the insulators (brown and orange) from the CD mechanism base assembly. (See Fig.2.)
(4) Remove the CD shaft from the CD mechanism base assembly in the direction of the arrow 2 while moving the shaft stopper in the direction of the arrow 1. (See Fig.2.)
(5) Remove the CD pick from the CD mechanism base assembly.

3.2.2 Installing the CD pick (See Figs.1 and 2)

(1) While installing the section **a** of the CD pick to the CD mechanism base assembly, set the CD shaft to the section **b**. (See Fig.2.)
(2) Install the insulators (brown and orange) to the CD mechanism base assembly. (See Fig.2.)
(3) Attach the pick cover and CD mechanism holders. (See Fig.1.)

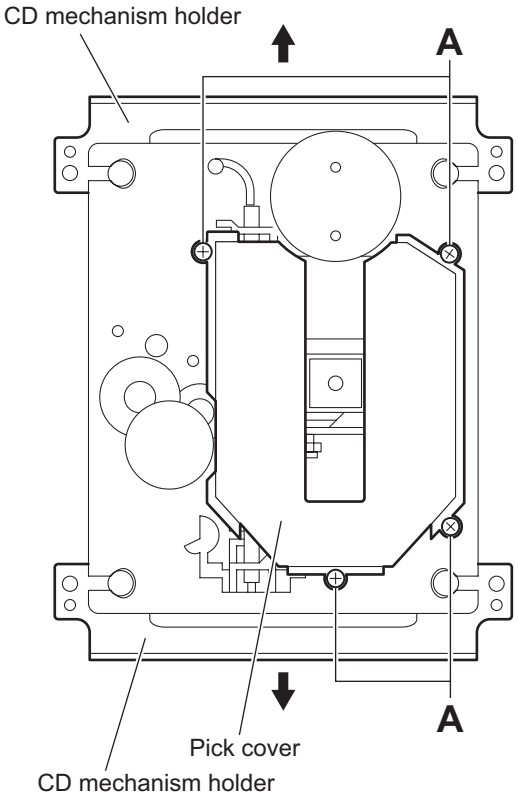


Fig.1

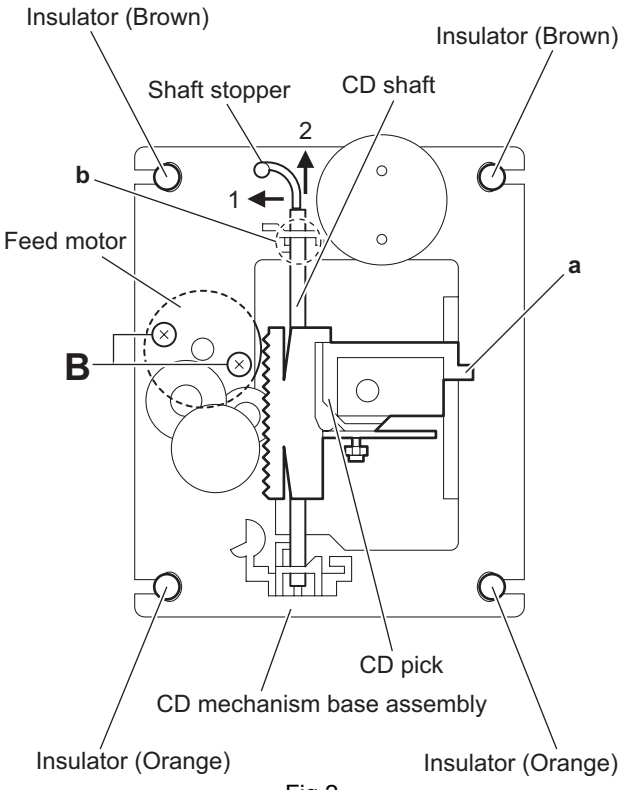


Fig.2

3.2.3 Removing the spindle motor and feed motor (See Fig.2 to 4)

(1) Remove the two screws **B** attaching the feed motor. (See Fig.2.)
(2) Remove the turn table in an upward direction and remove the two screws **C** attaching the spindle motor. (See Fig.3.)
(3) From the bottom side of the CD mechanism base assembly, remove the screw **D** attaching the spindle/feed motor board. (See Fig.4.)
(4) Remove the solders from the sections (**c**, **d**) on the spindle/feed motor board. (See Fig.4.)

3.2.4 Installing the spindle motor and feed motor (See Figs.3 to 6)

(1) Tighten the two screws **B** and two screws **C** to the same torque. (See Figs.2 and 3.)
(2) Fasten the spindle/feed motor board with the screw **D**. (See Fig.4.)
(3) Solder the spindle and feed motors on the spindle/feed motor board as before. (See Fig.4.)
(4) Install the turn table. When installing, press straight down at the center of the turn table until the distance from the surface of the CD mechanism base assembly to the top of the turn table is exactly 19.4±0.1mm. (See Fig.5.)
(5) After insertion is complete, bond the motor shaft and turn table together. (See Fig.6.)
(6) Use 'LOCKTITE' #460 bonding agent, and apply as little as possible. Take care not to allow any excess bonding agent to get onto the turn table. Be extremely careful not to allow bonding agent to adhere to the motor bearings. (See Fig.6.)

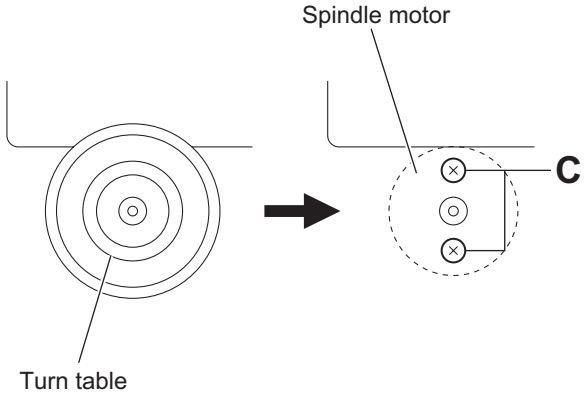


Fig.3

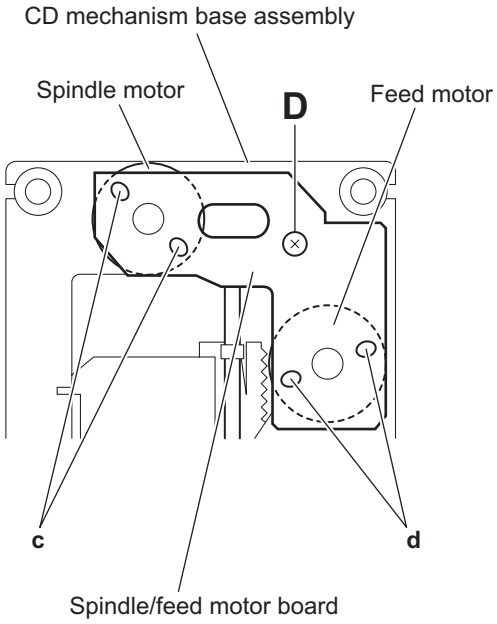


Fig.4

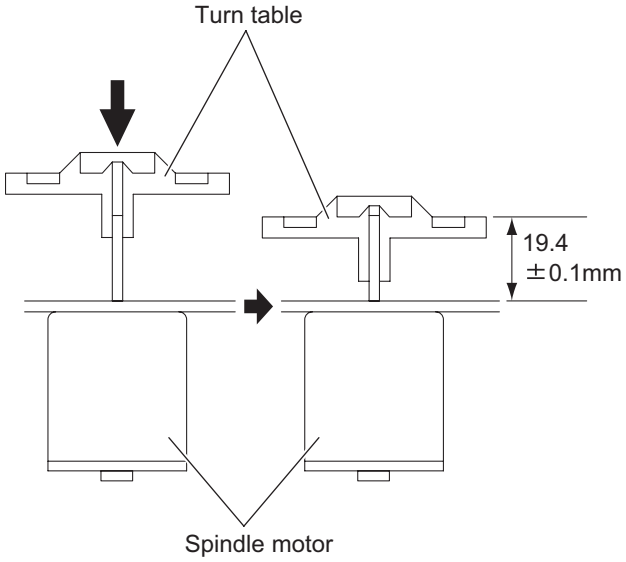


Fig.5

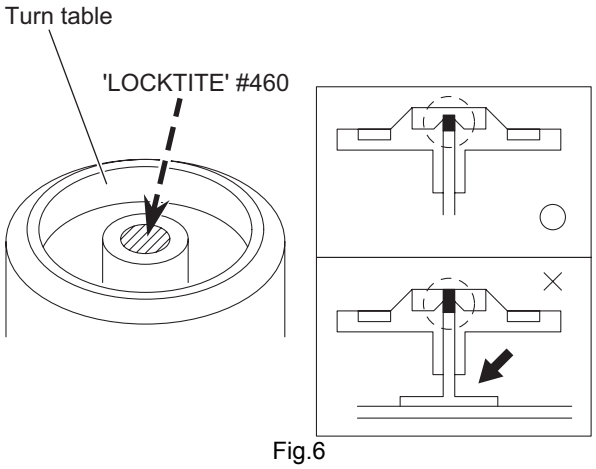


Fig.6

3.3 Cassette mechanism section

• Remove the cassette mechanism assembly. (See "3.1.3 Removing the cassette mechanism assembly".)

3.3.1 Removing the head amplifier & mechanism control board (See Fig.1)

(1) After turning over the cassette mechanism assembly, remove the three screws **A** attaching the head amplifier & mechanism control board.
(2) Disconnect the flexible wire from the connector CN31 on the head amplifier & mechanism control board.
(3) Disconnect the head amplifier & mechanism control board from the connector CN1 on the switch board and remove the head amplifier & mechanism control board.

Reference:

Remove the solders from the section a to remove the parallel wire soldered to the D.C. motor as required.

3.3.2 Removing the D.C. motor (See Figs.1 to 4)

(1) From the bottom side of the cassette mechanism assembly, remove the solders from the sections a. (See Fig.1.)
(2) From the top side of the cassette mechanism assembly, remove the two screws **B** attaching the D.C. motor. (See Fig.1.)
(3) While raising the D.C. motor, remove the capstan belt from the motor pulley. (See Fig.2)

Caution:

Be sure to handle the capstan belt so carefully that this belt will not be stained by grease and other foreign matter. Moreover, these belts should be hanged while referring to the capstan belt hanging method. (See Figs.3 and 4.)

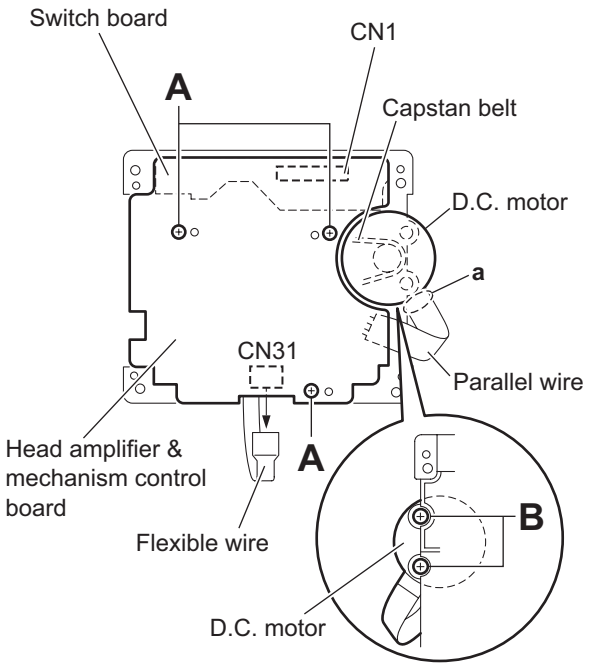


Fig.1

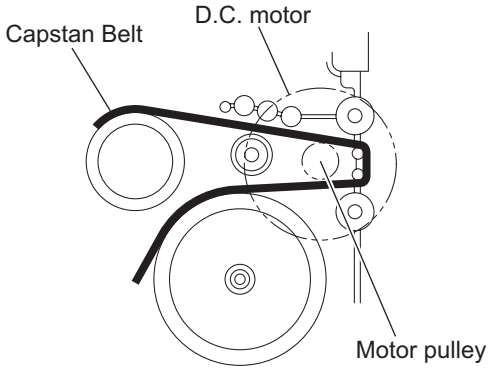


Fig.2

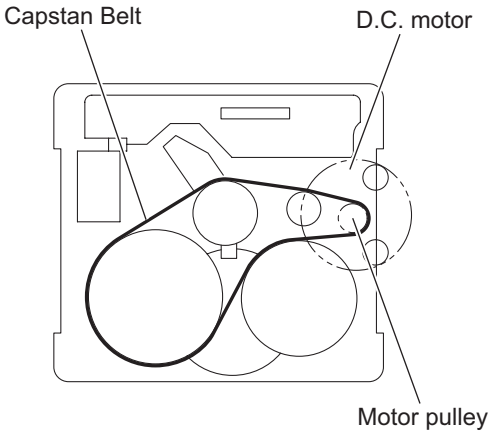


Fig.3

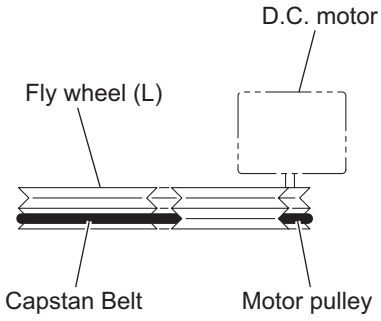


Fig.4

3.3.3 Removing the flywheels (See Figs.5 and 6)

- Remove the head amplifier & mechanism control board and D.C. motor.
  (1) After turning over the cassette mechanism assembly, remove the slit washers (**b**, **c**) fixing the capstan shafts R and L.
  (2) Pull out the flywheel(R) and flywheel(L) respectively from the bottom side of the cassette mechanism assembly.

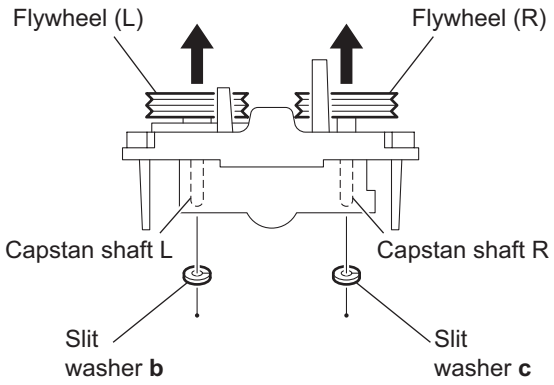


Fig.5

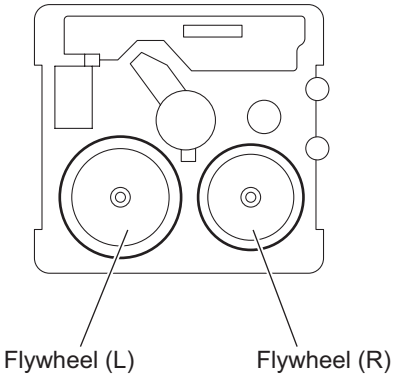


Fig.6

3.3.4 Removing the DC solenoid and switch board (See Fig.7)

- Remove the head amplifier & mechanism control board and D.C. motor.
  (1) Remove the screw **C** attaching the switch board.
  (2) Remove the pawls (**d**, **e**, **f**, **g** and **h**) attaching the switch board.
  (3) From the top side of the cassette mechanism assembly, remove the pawls (**i**, **j**) attaching the DC solenoid.

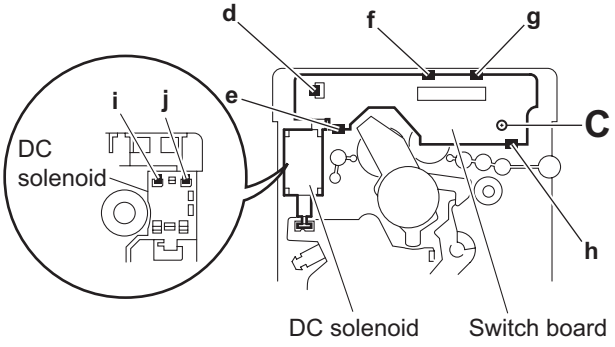


Fig.7

3.3.5 Removing the playback/recording head (See Figs.8, 9, 12)

(1) While shifting the trigger arms seen on the right side of the head mount assembly in the direction of the arrow, turn the flywheel (L) in counterclockwise direction until the head mount assembly has gone out with a click. (See Figs.8 and 9.)
(2) When the flywheel (L) is rotated in counterclockwise direction from the position in Fig.9 to that in Fig.12.
(3) At this position, disconnect the flexible wire (outgoing from the playback/recording head) from the connector CN31 on the head amplifier & mechanism control board. (See Fig.12.)
(4) Remove the flexible wire from the section k. (See Fig.12.)
(5) Remove the spring from the bottom side of the playback/recording head. (See Fig.12.)
(6) Loosen the reversing azimuth screw attaching the playback/recording head. (See Fig.12.)
(7) Take out the playback/recording head from the front side of the head mount assembly.

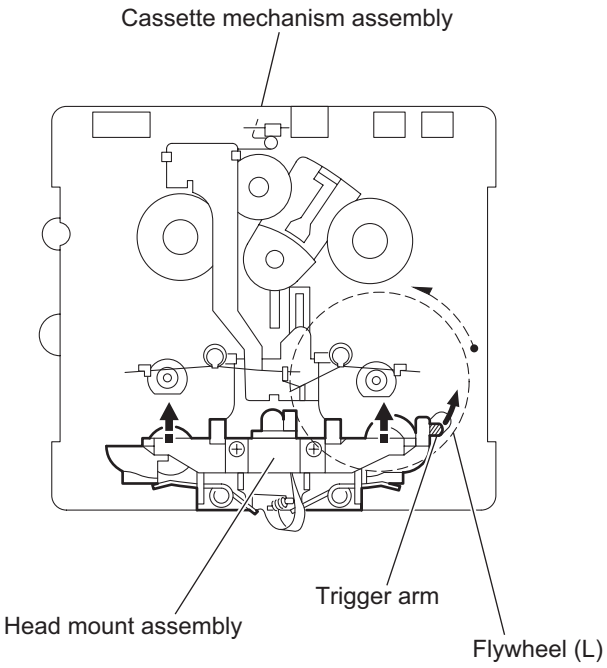


Fig.8

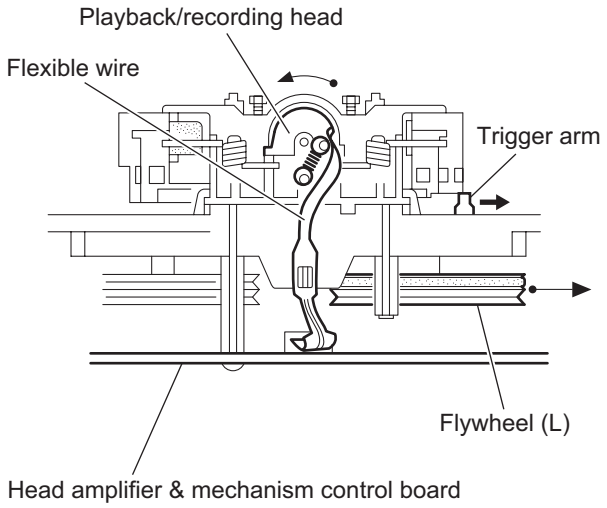


Fig.9

3.3.6 Reassembling the playback/recording head (See Figs.10 to 12)

(1) Reassemble the head mount.
   a) To become direction of the left side, direction lever of the head mount assembly is maintained by the hand. (See Fig.11.)
   b) Reassemble the playback/recording head from the front of the head mount assembly to the position as shown Fig.10, Fig11, and Fig.12. (**m'**, **n'**, **p'** and **q'**, **r'** are set to the hole of **n** and **p** and ditches of **m**, **q** and **r** and thrusting out the head mount assembly is built in.

(2) Fix the reversing azimuth screw. (See Fig.12.)

(3) Set the spring from the bottom side of the playback/recording head. (See Fig.12.)

(4) Attach the flexible wire to the section k of the chassis base assembly. (See Fig.12.)

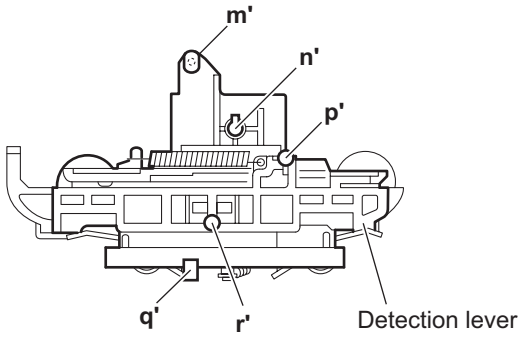


Fig.10

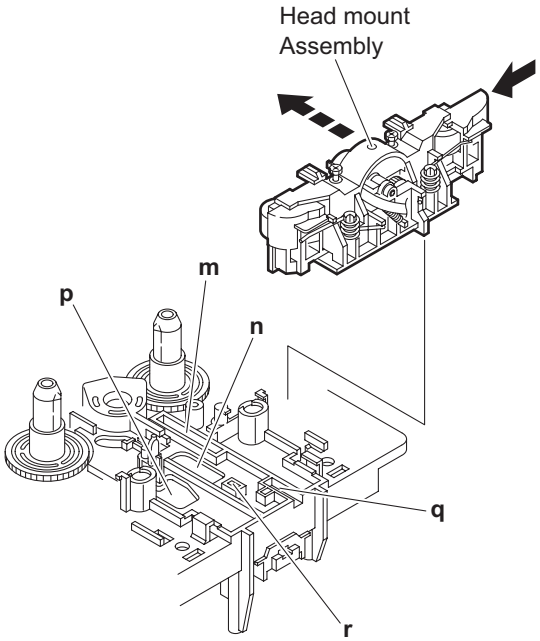


Fig.11

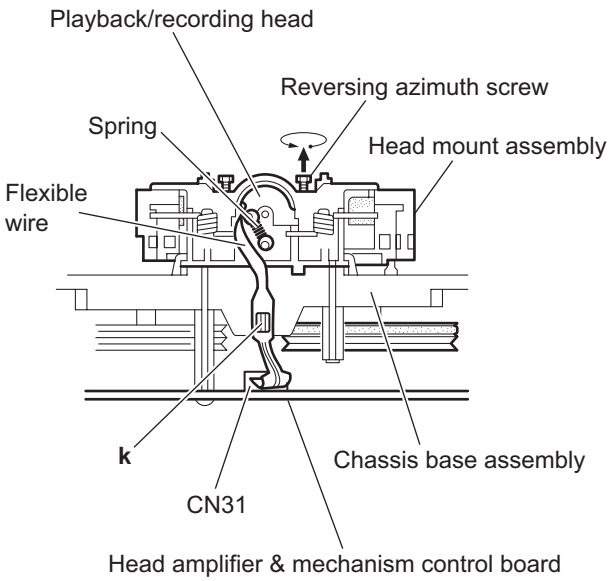


Fig.12

3.3.7 Reassembling the Control Cam (See Figs.13 to 15)

The head assembly is adjusted in the direction of the left side (direction of the forward), and it inserts according to the part of the hole s of the control cam and the section s' of the chassis base assembly.

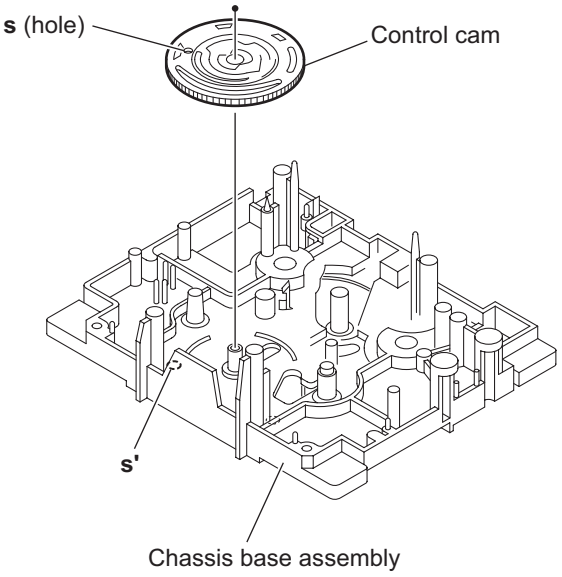


Fig.13

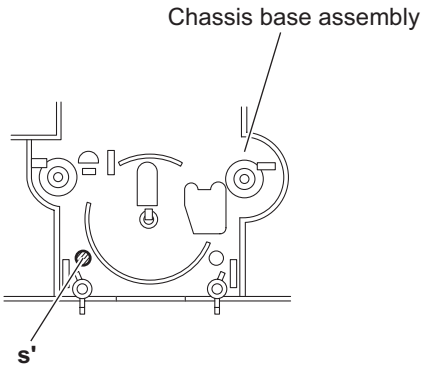


Fig.14

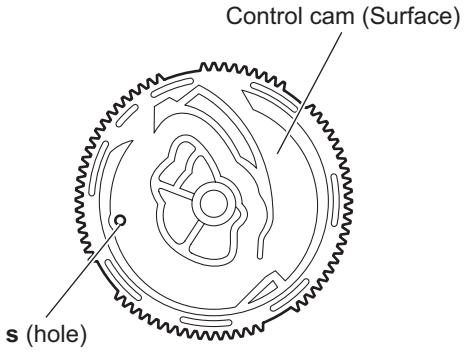
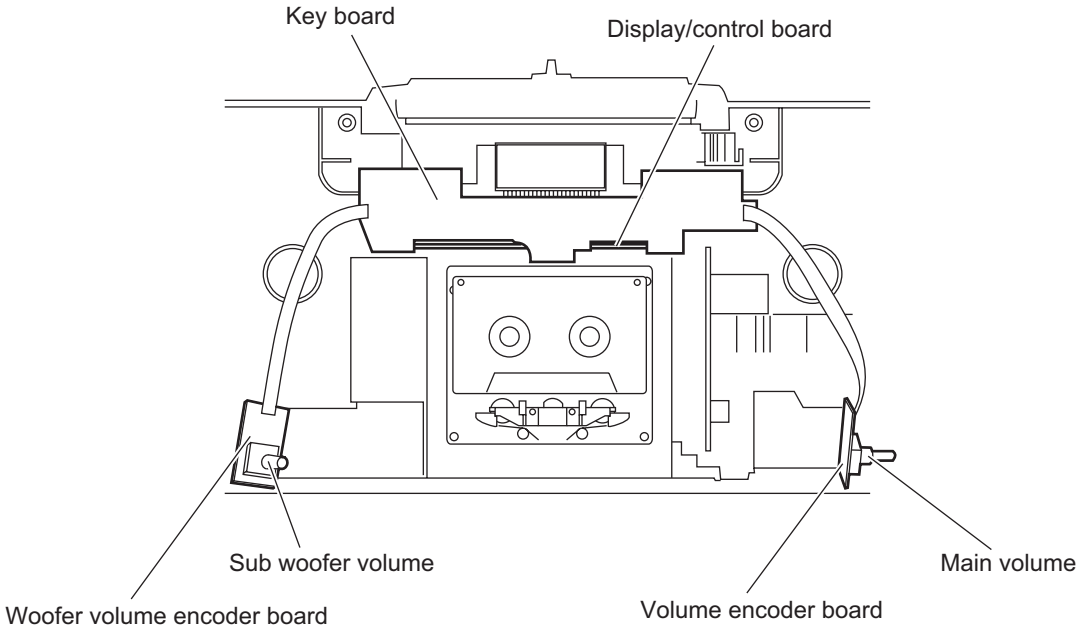


Fig.15

SECTION 4
ADJUSTMENT

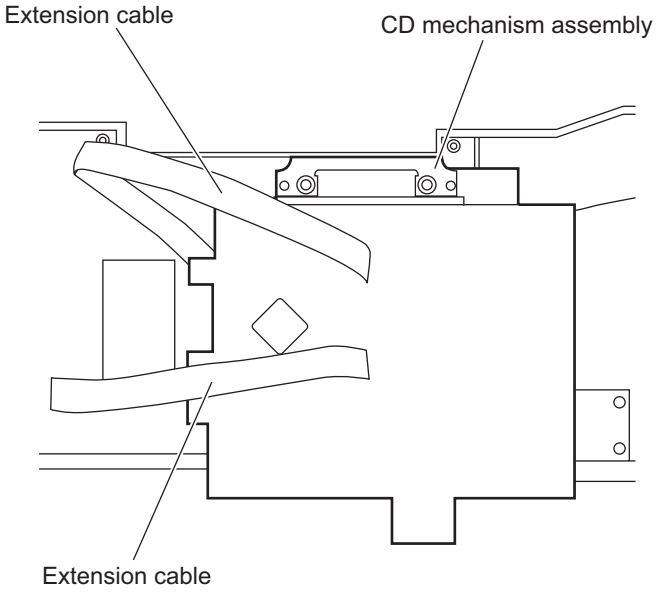
4.1 Connection of Adjustment

4.1.1 Connection of Cassette Deck and Circuit Board Check



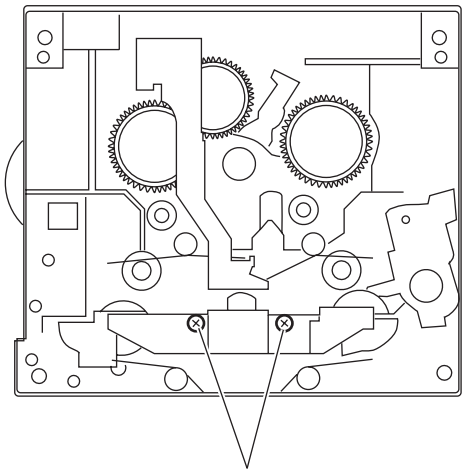
*Remove the key, volume encoder and woofer volume encoder boards from the front panel assembly and connect them to the display/control board.

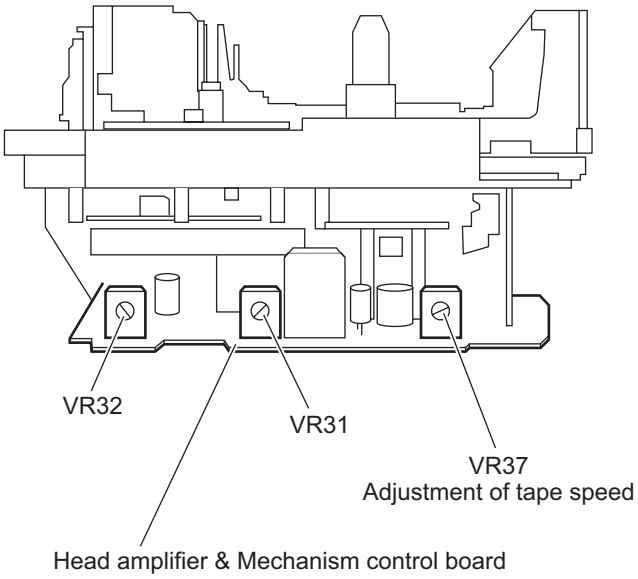
4.1.2 Connection of CD mechanism assembly check



4.2 Adjustment of cassette mechanism section

4.2.1 Arrangement of adjusting points





4.2.2 Electrical performance

Items	Measurement conditions	Measurement method	Standard values	Adjusting positions
Adjustment of recording bias current (Reference value)	*Mode : Forward or reverse mode *Recording mode *Test tape : AC-514 and AC-225 Measurement output terminal : Both recording and headphone terminals	1. With the recording and playback mechanism, load the test tapes(AC-514 to TYPE Ⅱ and AC-225 to TYPE Ⅰ),and set the mechanism to the recording and pausing conditions in advance. 2. After connecting 100Ω in series to the recorder head, measure the bias current with a valve voltmeter at both of the terminals. 3. After resetting the [PAUSE] mode, start recording. At this time, adjust VR31 for LcH and VR32 for RcH so that the recording bias current values become 4.0μA (TYPE Ⅰ) and 4.20μA(TYPE Ⅱ).	AC-225 :4.20μA AC-514 :4.0μA	LcH :VR31 RcH :VR32
Adjustment of recording and playback frequency characteristics	Reference frequency : 1kHz and 10kHz (REF:-20dB) Test tape : TYPE Ⅱ AC-514 Measurement input terminal : OSC IN	1. With the recording and playback mechanism, load the test tape(AC-514 to TYPE Ⅱ),and set the mechanism to the recording and pausing condition in advance. 2. While repetitively inputting the reference frequency signal of 1kHz and 10kHz from OSC IN, record and playback the test tape. 3. While recording and playing back the test tape in TYPE Ⅱ,adjust VR31 for LcH and VR32 for RcH so that the output deviation between 1kHz and 10kHz becomes -1dB±2dB.	Output deviation between 1kHz and 10kH :-1dB±2dB	LcH :VR31 RcH :VR32

4.2.3 Reference values for electrical function confirmation items

Items	Measurement conditions	Measurement method	Standard values	Adjusting positions
Recording bias frequency	*Recording and playback side forward or reverse *Test tape : TYPE Ⅱ AC-514 *Measurement terminal : BIAS TP on P.C.board	1. While changing over to and from BIAS 1 and 2, confirm that the frequency is changed. 2. With the recording and playback mechanism, load the test tape (AC-514 to TYPE Ⅱ), and set the mechanism to the recording and pausing conditions in advance. 3. Confirm that the BIAS TP frequency on the P.C.board is 100kHz±6kHz.	100kHz ±6kHz	
Eraser current (Reference value)	*Recording and playback side forward or reverse *Recording mode *Test tape : AC-514 and AC-225 Measurement terminal : Both of the eraser head	1. With the recording and playback mechanism, load the test tapes (AC-514 to TYPE Ⅱ and AC-225 to TYPE Ⅰ), and set the mechanism to the recording and pausing condition in advance. 2. After setting to the recording conditions, connect 1MΩ in series to the eraser head on the recording and playback mechanism side, and measure the eraser current from both of the eraser terminal.	TYPE Ⅱ :120mA TYPE Ⅰ :75mA	

4.2.4 Tape Recorder Section

Items	Measurement conditions	Measurement method	Standard values	Adjusting positions
Confirmation of head angle	Test tape : TMT7036(10kHz) Measurement output terminal : Speaker terminal Speaker R : headphone terminal	1. Playback the test tape TMT7036(10kHz). 2. With the playback mechanism or recording & playback mechanism, adjust the head azimuth screw so that the forward and reverse output levels become maximum. After adjustment, lock the head azimuth at least by half a turn. 3. In either case, this adjustment should be performed in both the forward and reverse directions with the head azimuth screw.	Maximum output	Adjust the head azimuth screw only when the head has been changed.
Confirmation of tape speed	Test tape : VTT712(3kHz) or TMT7036(3kHz) Measurement output terminal : Headphone terminal	<Constant speed> Adjust VR37 so that the frequency counter reading becomes 3,010Hz ±15Hz when playing back the test tape VTT712(3kHz)with the playback mechanism or playback and recording mechanism after ending forward winding of the tape.	Tape speed of decks : 3,010Hz ±15Hz	VR37

4.2.5 Reference Values for Confirmation items

Items	Measurement conditions	Measurement method	Standard values	Adjusting positions
Wow & flutter		When the test tape VTT712(3kHz) has been played back with the playback mechanism or recording and playback mechanism at the beginning of forward winding the frequency counter reading of wow & flutter should be 0.25% or less(WRMS).	0.25% or less (WRMS)	Both the playback and recording & playback mechanism

4.3 Adjustment of tuner section

4.3.1 Electrical characteristics of tuner

Items	Measurement conditions	Measurement method	Standard values	Adjusting positions
Adjustment of AM RF tracking	▪ Band selection to : AM ▪ Input position: Standard loop antenna	1. Receive 530kHz(preset memory P1) from SSG through the standard loop antenna. 2. Receive 1,710kHz(preset memory P2) from SSG through the standard loop antenna. Adjust L4 so that the output at this time becomes maximum output. 3. In case the voltage at the test point TP9 exceeds 5.0V, adjust L4 so that the voltage become 5.0V ± 0.1V. In case the voltage is 5.0V or less, be sure not to perform any adjustment. 4. Receive 600kHz(preset memory P3) from SSG through the standard loop antenna. Adjust L3 so that the output at this time become maximum. 5. Receive 1,400kHz (preset memory P4) from SSG through the standard loop antenna. Adjust TC2 so that output at this becomes maximum. 6. Repeat Steps 4 and 5 so that the output becomes maximum.	Maximum output	L4 L4 L3 TC2

SECTION 5
TROUBLESHOOTING

This service manual does not describe TROUBLESHOOTING.

JVC
Victor Company of Japan, Limited
AV & MULTIMEDIA COMPANY AUDIO/VIDEO SYSTEMS CATEGORY 10-1,1chome,Ohwatari-machi,Maebashi-city,371-8543,Japan

(No.MB333)

Printed in Japan
VPT

JVC

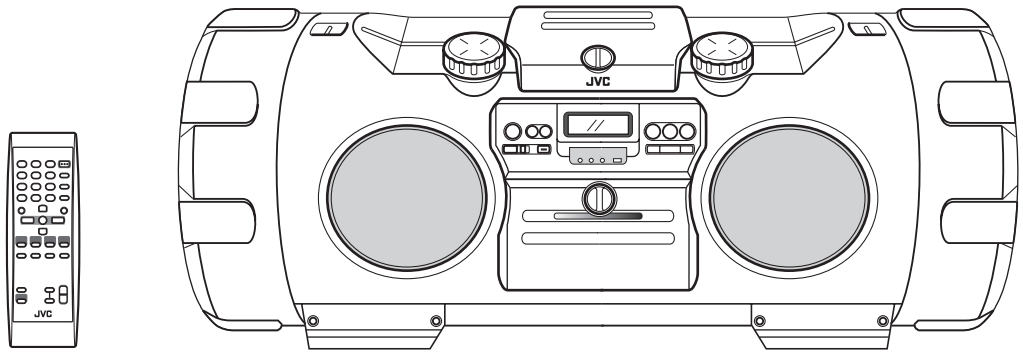
SCHEMATIC DIAGRAMS

POWERED WOOFER CD SYSTEM

RV-NB1

CD-ROM No.SML200410

Area suffix	
J	U.S.A.
C	Canada



MP3 PLAYBACK

COMPACT disc DIGITAL AUDIO

Contents

Block diagram ---------- 2-1
Standard schematic diagrams ---------- 2-3
Printed circuit boards ---------- 2-17 to 23

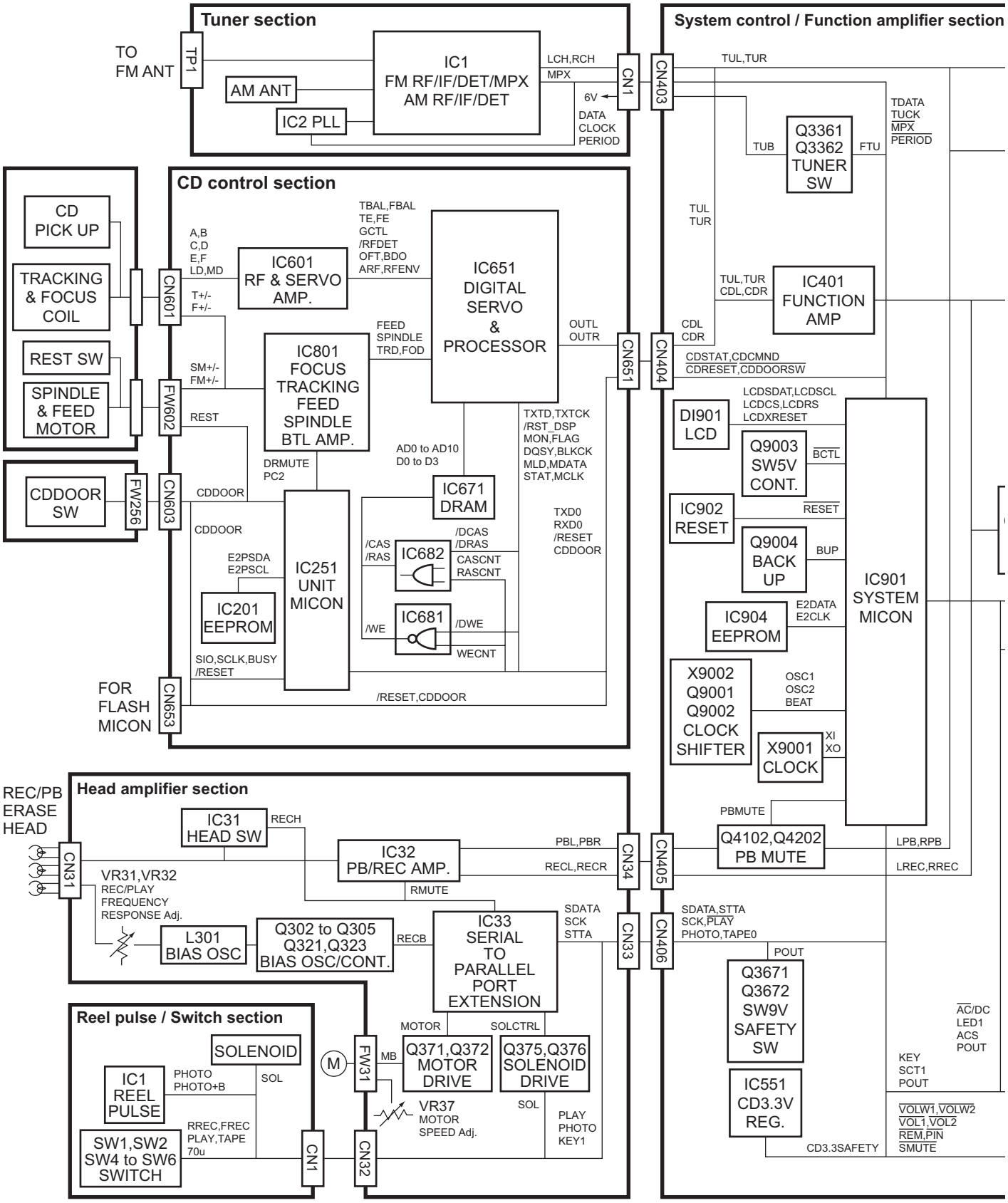
COPYRIGHT ⓒ2004 Victor Company of Japan, Limited.

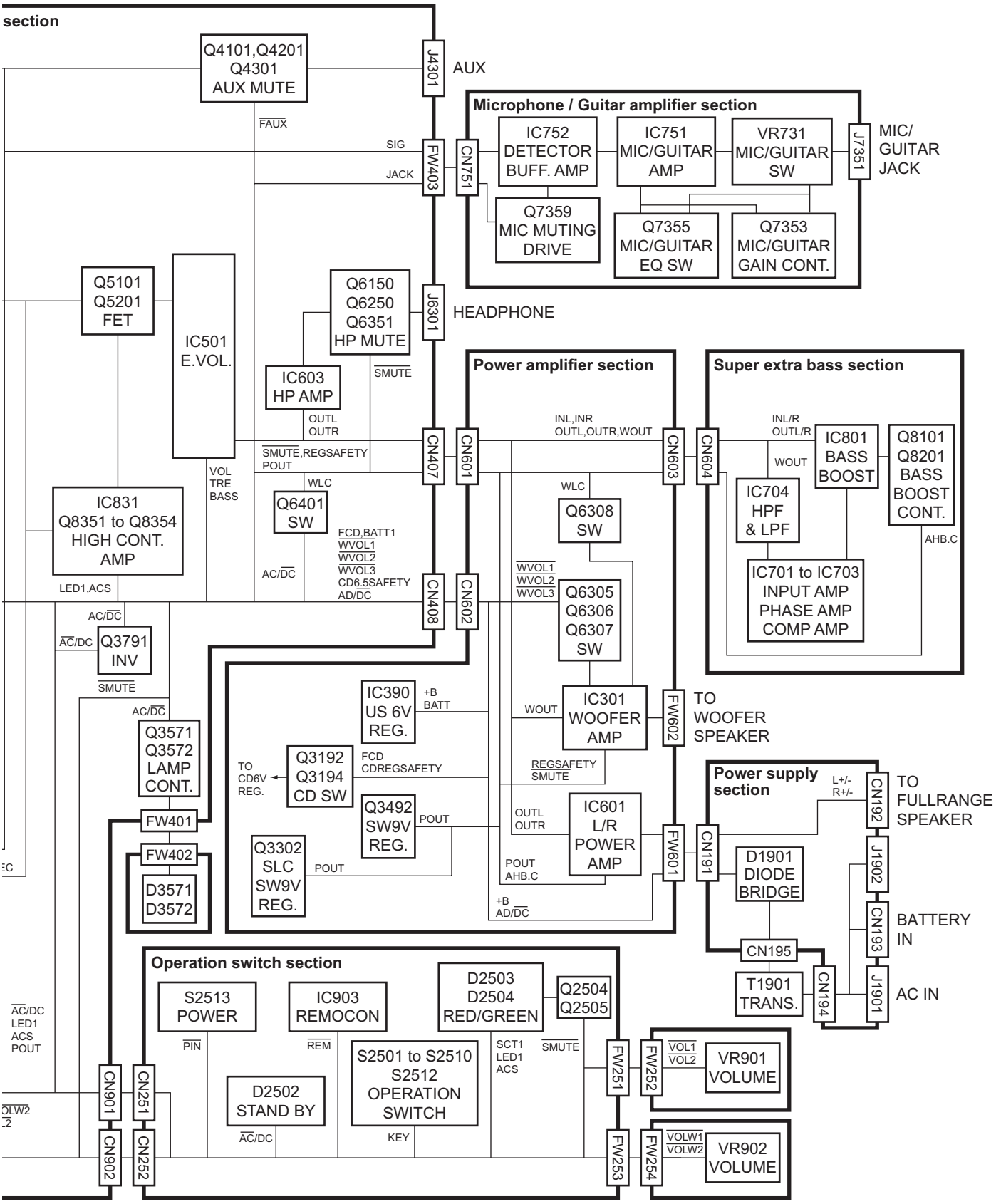
No.MB333SCH
2004/10

In regard with component parts appearing on the silk-screen printed side (parts side) of the PWB diagrams, the parts that are printed over with black such as the resistor (▬), diode (▬) and ICP (●) or identified by the "⚠" mark nearby are critical for safety.

< MEMO >

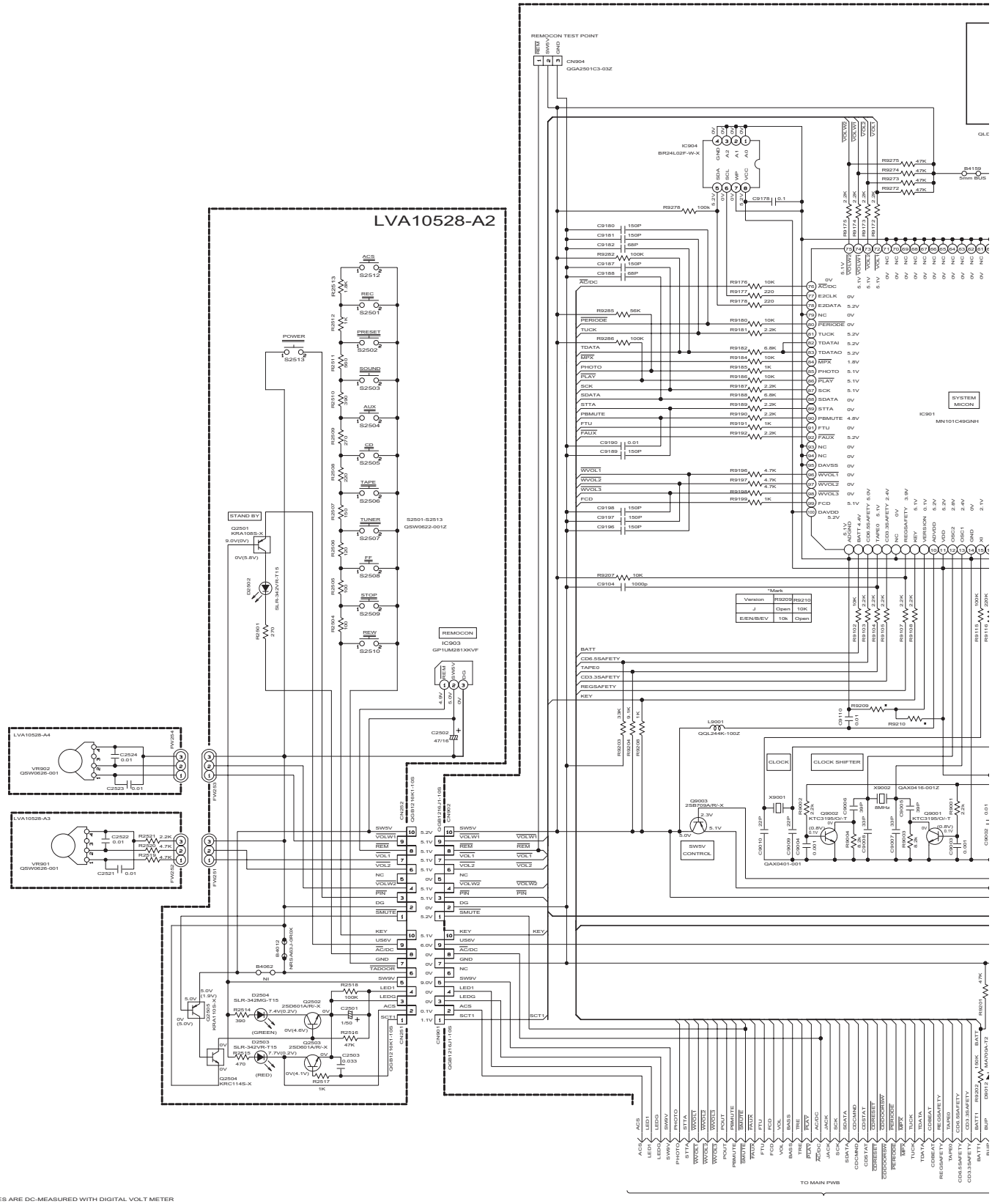
Block diagram




section
Q4101,Q4201
Q4301
AUX MUTE
J4301
AUX
FAUX
Microphone / Guitar amplifier section
IC752
DETECTOR
BUFF. AMP
IC751
MIC/GUITAR
AMP
VR731
MIC/GUITAR
SW
J7351
MIC/
GUITAR
JACK
SIG
JACK
FW403
CN751
Q7359
MIC MUTING
DRIVE
Q7355
MIC/GUITAR
EQ SW
Q7353
MIC/GUITAR
GAIN CONT.
Q5101
Q5201
FET
IC501
E.VOL.
Q6150
Q6250
Q6351
HP MUTE
J6301
HEADPHONE
IC603
HP AMP
SMUTE
Power amplifier section
Super extra bass section
OUTL
OUTR
INL,INR
OUTL,OUTR,WOUT
INL/R
OUTL/R
IC801
BASS
BOOST
Q8101
Q8201
BASS
BOOST
CONT.
WOUT
SMUTE,REGSAFETY
POUT
CN407
CN601
CN603
CN604
VOL
TRE
BASS
WLC
Q6401
SW
Q6308
SW
IC704
HPF
& LPF
AHB.C
IC831
Q8351 to Q8354
HIGH CONT.
AMP
FCD,BATT1
WVOL1
WVOL2
WVOL3
CD6.5SAFETY
AD/DC
AC/DC
LED1,ACS
CN408
CN602
WVOL1
WVOL2
WVOL3
Q6305
Q6306
Q6307
SW
IC701 to IC703
INPUT AMP
PHASE AMP
COMP AMP
AC/DC
Q3791
INV
SMUTE
IC390
US 6V
REG.
+B
BATT
IC301
WOOFER
AMP
FW602
TO
WOOFER
SPEAKER
WOUT
Q3571
Q3572
LAMP
CONT.
TO
CD6V
REG.
Q3192
Q3194
CD SW
FCD
CDREGSAFETY
REGSAFETY
SMUTE
Power supply
section
L+/-
R+/-
CN192
TO
FULLRANGE
SPEAKER
FW401
FW402
D3571
D3572
Q3492
SW9V
REG.
POUT
OUTL
OUTR
IC601
L/R
POWER
AMP
FW601
CN191
J1902
D1901
DIODE
BRIDGE
Q3302
SLC
SW9V
REG.
POUT
POUT
AHB.C
+B
AD/DC
CN193
BATTERY
IN
CN195
T1901
TRANS.
CN194
J1901
AC IN
Operation switch section
S2513
POWER
IC903
REMOCON
D2503
D2504
RED/GREEN
Q2504
Q2505
PIN
REM
SCT1
LED1
ACS
SMUTE
S2501 to S2510
S2512
OPERATION
SWITCH
D2502
STAND BY
KEY
AC/DC
FW251
FW252
VOL1
VOL2
VR901
VOLUME
FW253
FW254
VOLW1
VOLW2
VR902
VOLUME
AC/DC
LED1
ACS
POUT
CN901
CN251
CN902
CN252

Standard schematic diagrams

■ System control / Operation switch section



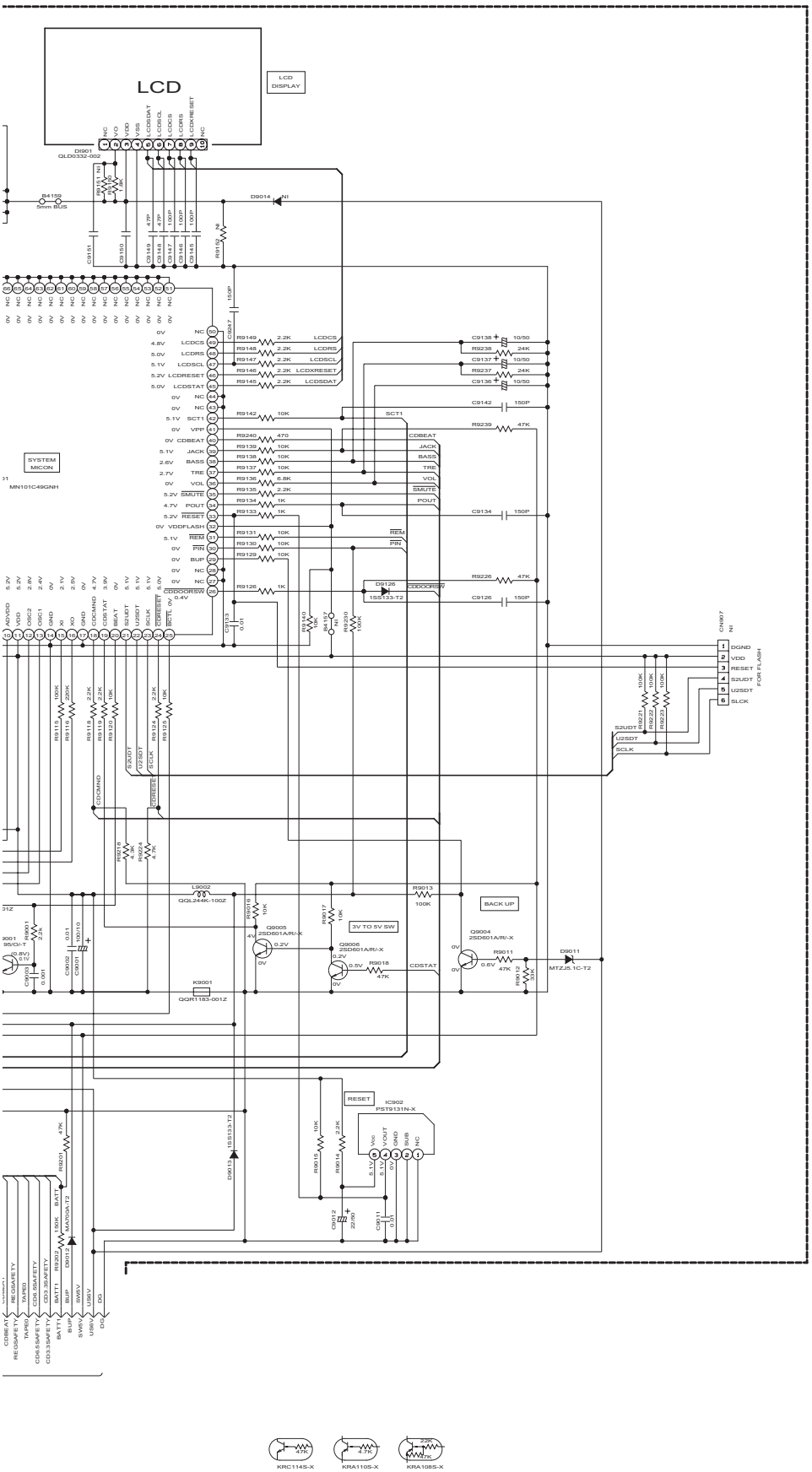
(SHEET 2)

NOTES

1.VOLTAGES ARE DC-MEASURED WITH DIGITAL VOLT METER
OR OSCILLOSCOPE WITHOUT INPUT SIGNAL.
CONDITION --- CD STOP AT AC SUPPLY VOL:9 SOUND BEAT WITHOUT TAPE

2.UNLESS OTHERWISE SPECIFIED.
ALL RESISTANCE VALUES ARE IN OHM (Ω).
ALL CAPACITORS ARE CERAMIC CAPACITOR OR MYLAR CAPACITOR.
ALL CAPACITANCE VALUES ARE IN μF(P=pF).
ALL INDUCTANCE VALUES ARE IN μH(m=mH).
ALL E.CAPACITORS ARE SHOWN IN THE FORM OF
CAPACITANCE (μF)/RATED VOLTAGE (V).
ALL DIODES ARE 1SS133-T2
ALL NPN TRANSISTORS ARE KTC3875/GR/-X OR 2SD601A/RS/-X OR2SC1623/5-6/-X.

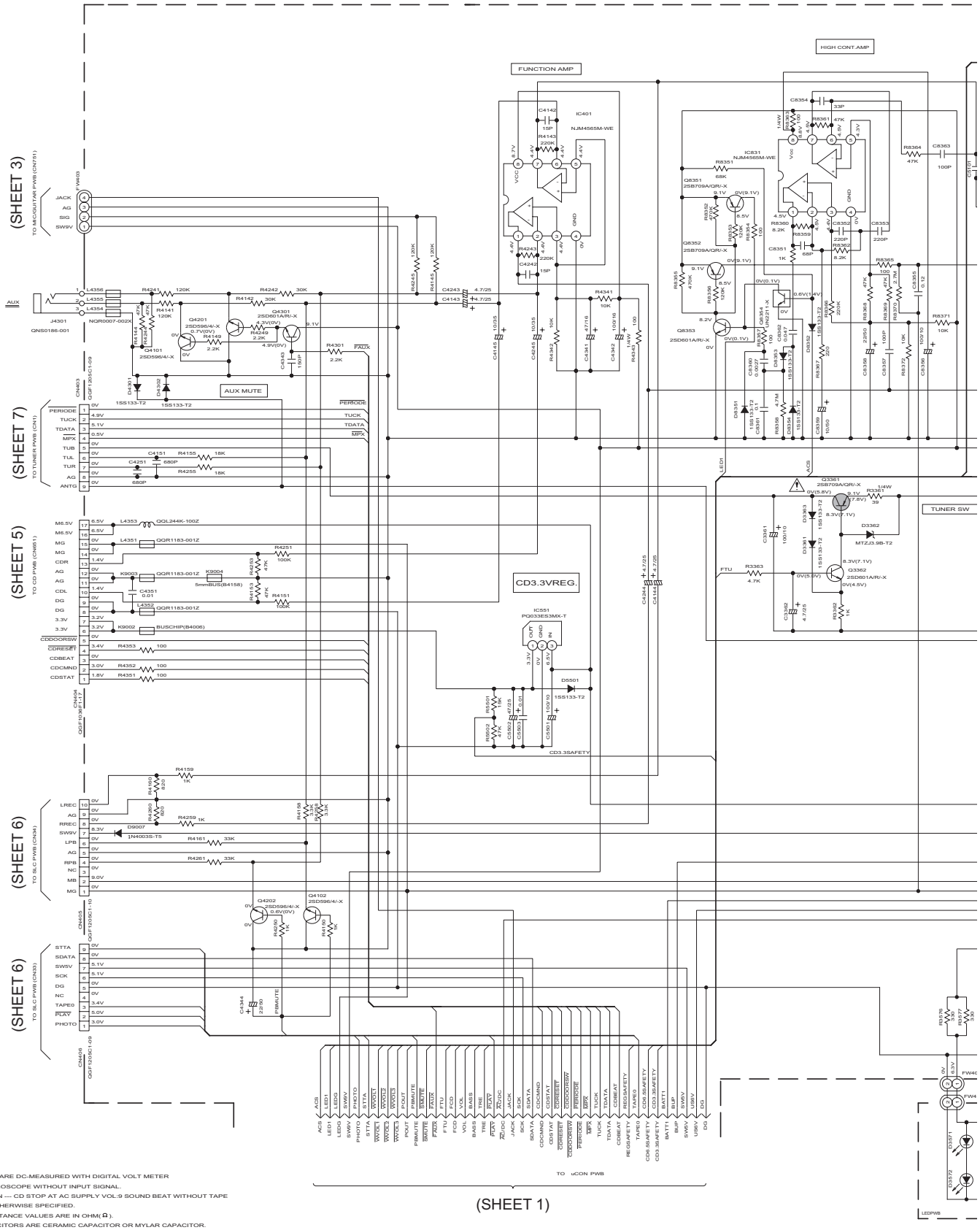
UNF UNFLAMMABLE CARBON RESISTOR
NON-POLARISED ELECTROLYTIC CAPACITOR
PP POLYPROPYLENE CAPACITOR
FS FUSEBLE RESISTOR

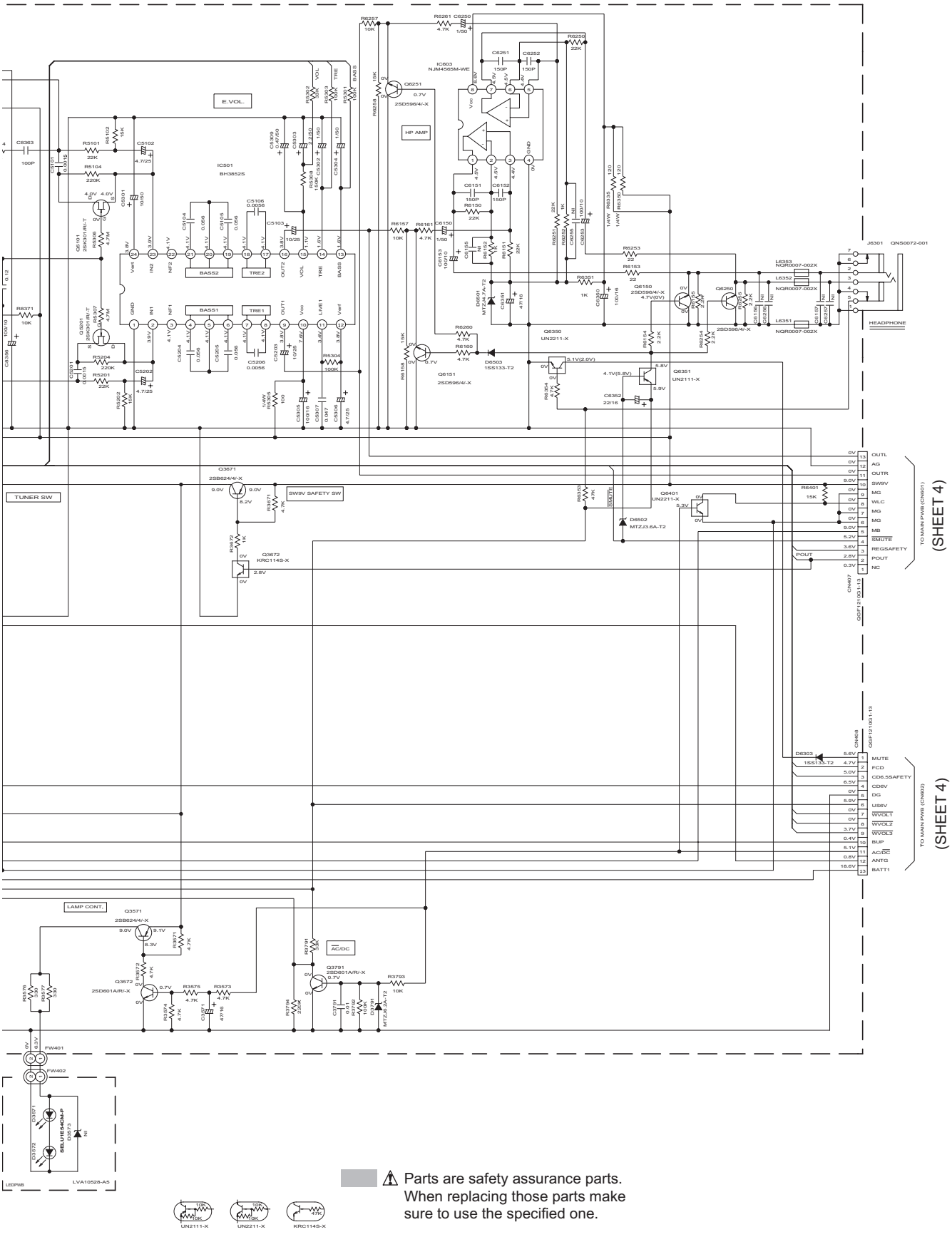

LCD
LCD DISPLAY
SYSTEM MICON
MN101C49GNH
BACK UP
3V TO 5V SW
RESET
IC902 PST9131N-X
K9001 QQRT183-001Z
L9002 QQL244K-100Z
CN907 NI
FOR FLASH

KRC114S-X
KRA110S-X
KRA108S-X

SHEET 1

■ Function amplifier section

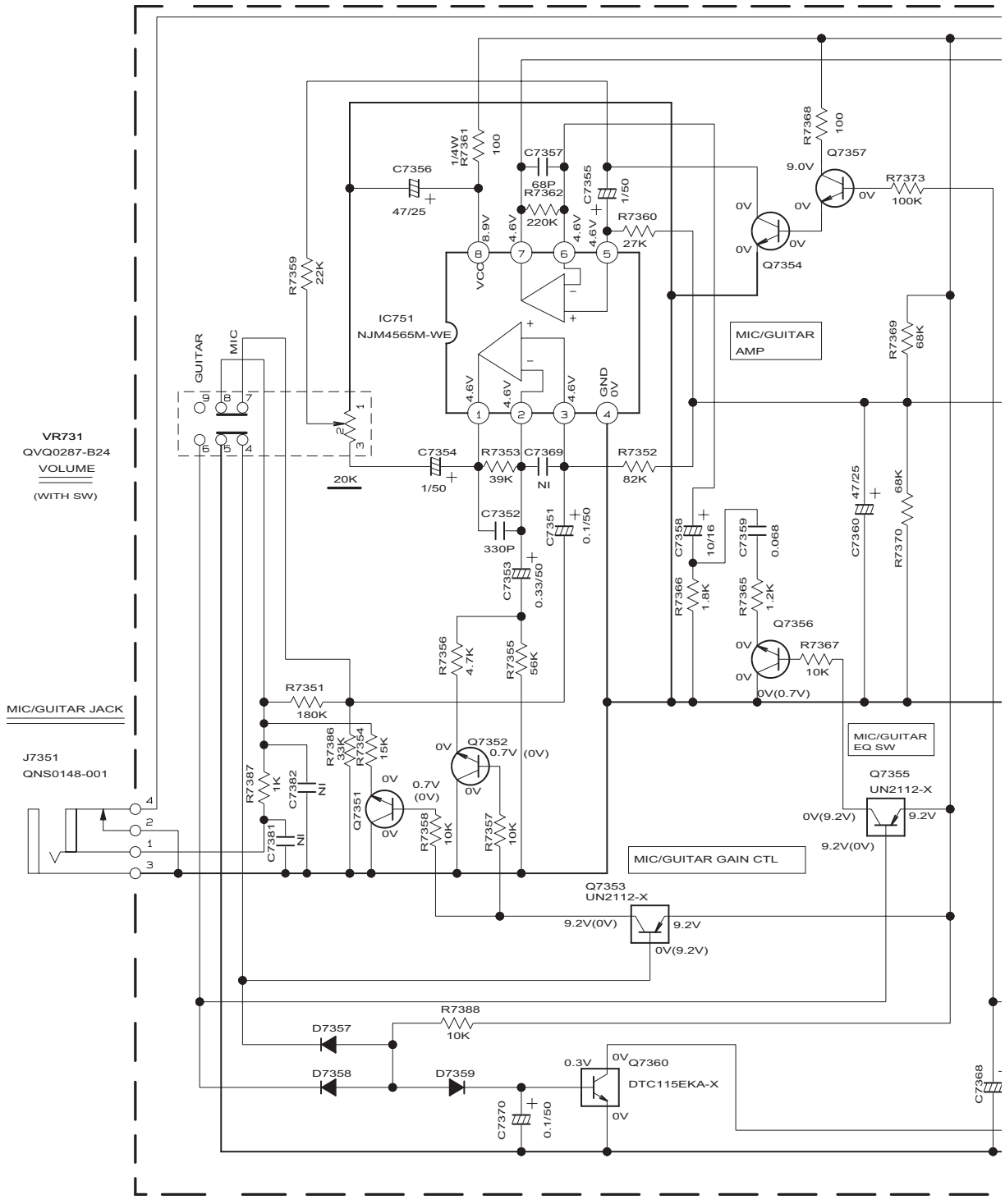




⚠ Parts are safety assurance parts.
When replacing those parts make sure to use the specified one.

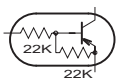
SHEET 2

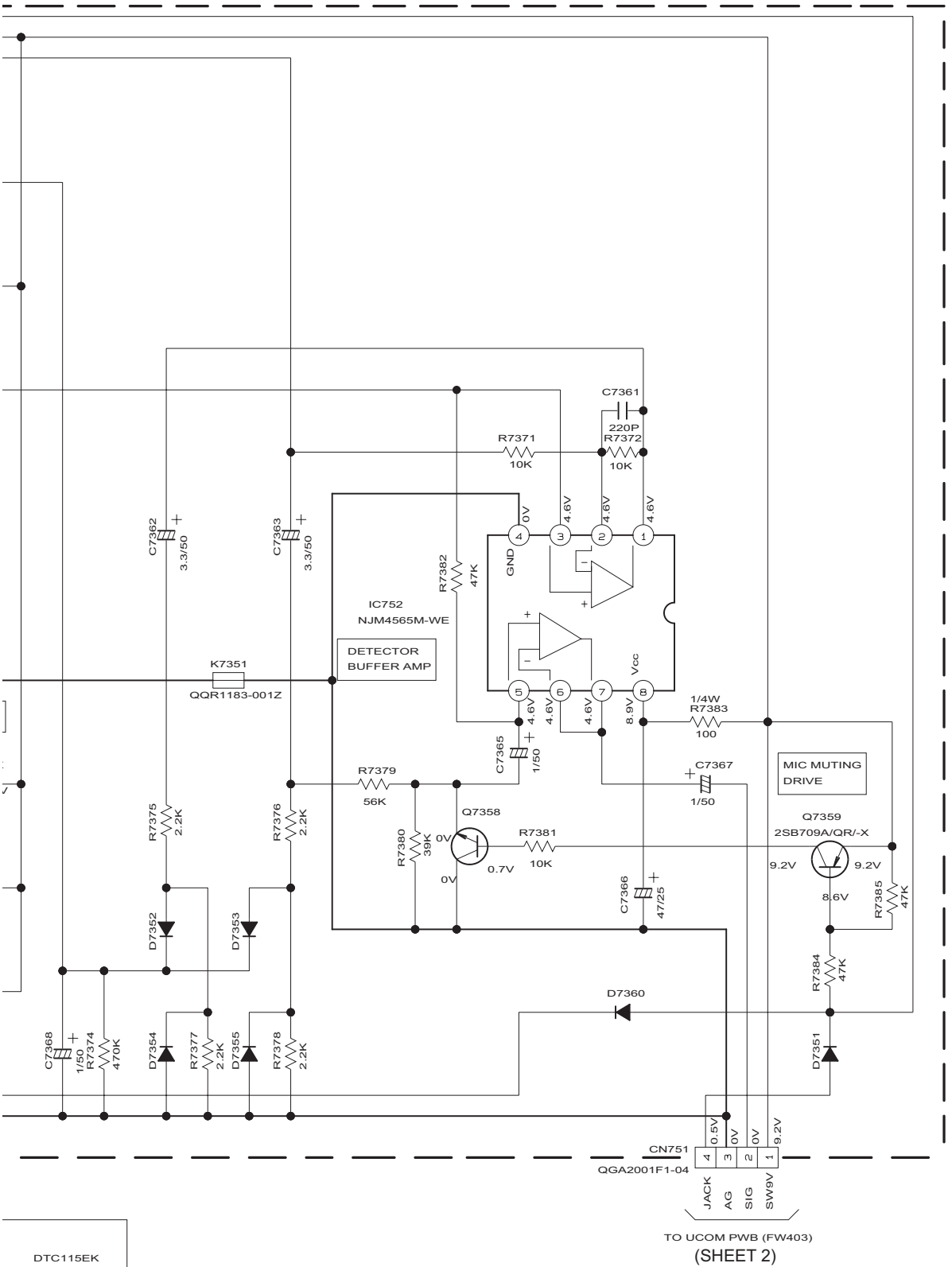
■ Microphone / Guitar amplifier section



NOTES

1. VOLTAGES ARE DC-MEASURED WITH A DIGITAL VOLT METER
   OR OSCILLOSCOPE WITHOUT INPUT SIGNAL.
   CONDITION --- CD STOP AT AC SUPPLY
   ( ) IS GUITAR POSITION AND NORMAL IS MIC POSITION
2. UNLESS OTHERWISE SPECIFIED RESISTORS ARE 1/10W 5% CARBON RESISTOR
   ALL RESISTANCE VALUES ARE IN OHM(Ω).
   ALL CAPACITORS ARE CERAMIC CAPACITOR OR MYLAR CAPACITOR.
   ALL CAPACITANCE VALUES ARE IN μF(P=pF).
   ALL INDUCTANCE VALUES ARE IN μH(m=mH).
   ALL E.CAPACITORS ARE SHOWN IN THE FORM OF CAPACITANCE (μF)/RATED VOLTAGE (V).
   ALL DIODES ARE 1SS133-T2
   ALL NPN TRANSISTORS ARE 2SD601A/R/-X

PARTS NAME	UN2112-X	DTC11
CONSTRUCTION		


C7361
220P
R7372
10K
R7371
10K
C7362
3.3/50
C7363
3.3/50
R7382
47K
GND
0V
4.6V
4.6V
4.6V
IC752
NJM4565M-WE
DETECTOR
BUFFER AMP
K7351
QQR1183-001Z
Vcc
4.6V
4.6V
4.6V
8.9V
1/4W
R7383
100
C7365
1/50
R7379
56K
C7367
1/50
MIC MUTING
DRIVE
R7375
2.2K
R7376
2.2K
Q7358
R7380
39K
0V
0.7V
0V
R7381
10K
Q7359
2SB709A/QR/-X
9.2V
9.2V
8.6V
C7366
47/25
R7385
47K
R7384
47K
D7352
D7353
D7360
C7368
1/50
R7374
470K
D7354
R7377
2.2K
D7355
R7378
2.2K
D7351
CN751
QGA2001F1-04
0.5V
0V
0V
9.2V
4
3
2
1
JACK
AG
SIG
SW9V
TO UCOM PWB (FW403)
(SHEET 2)
DTC115EK
100K
100K

SHEET 3

■ Power supply / Power amplifier section

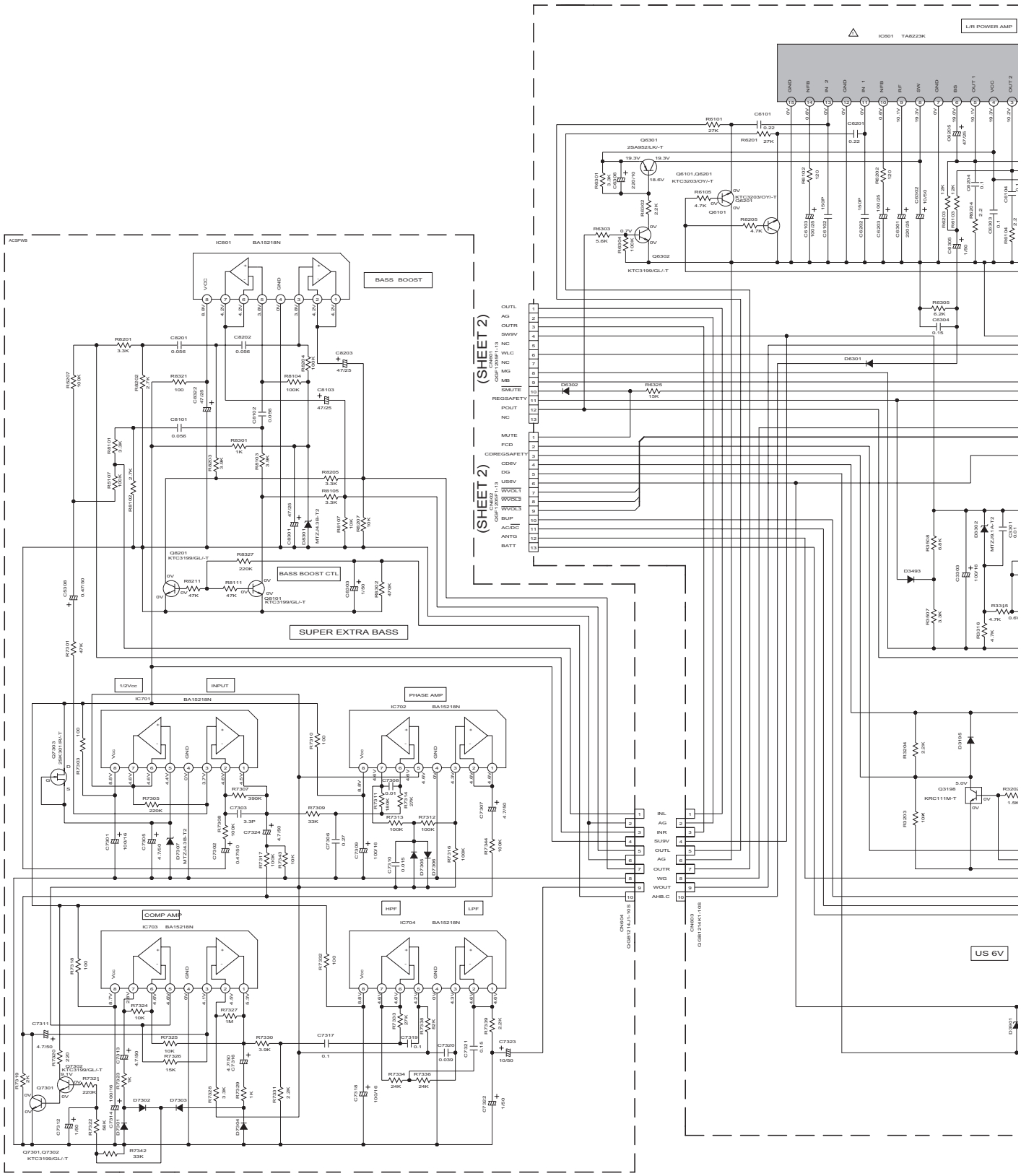
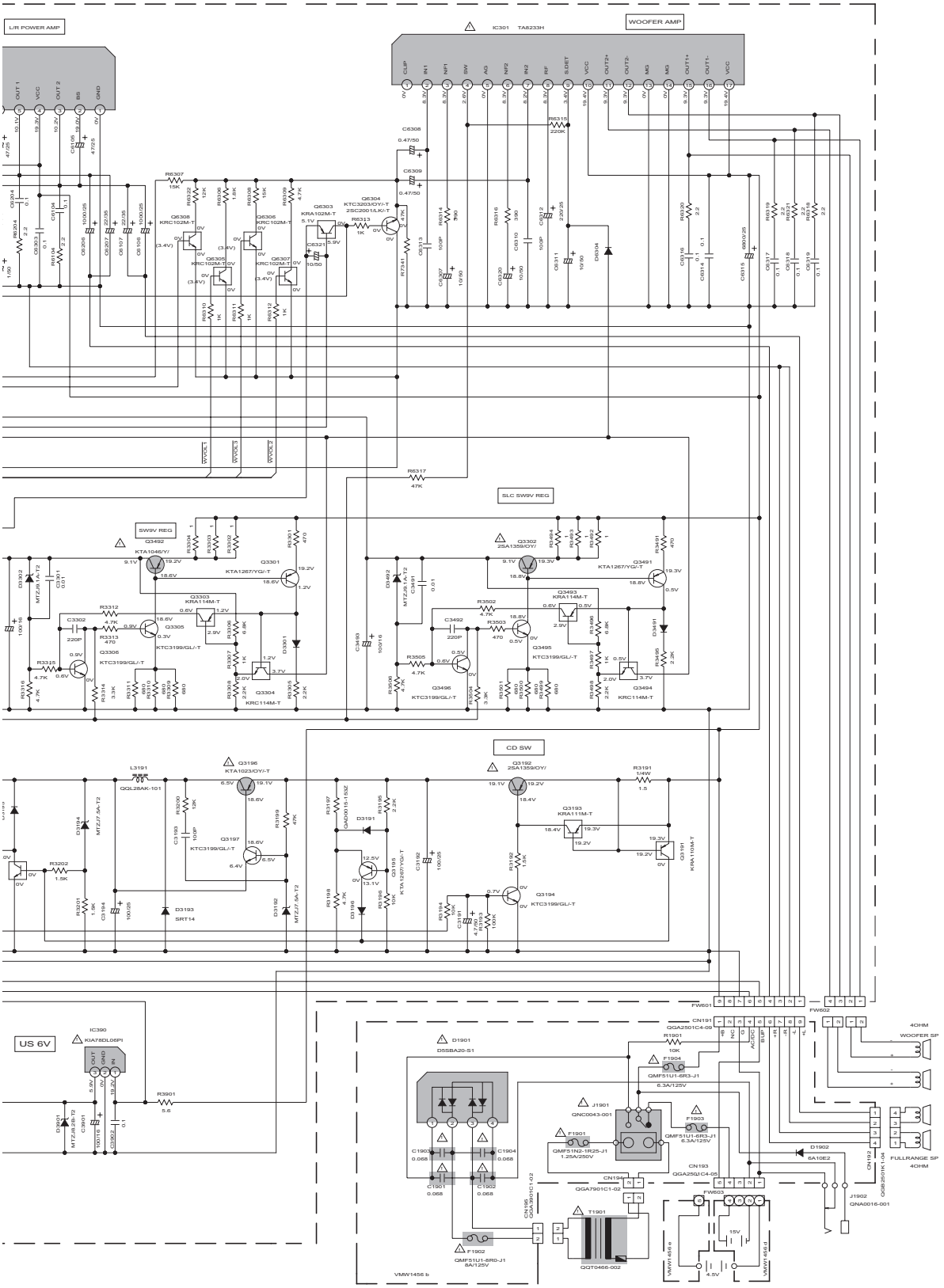


TABLE1 DIGITAL TRANSISTOR

NOTES

1. VOLTAGES ARE DC-MEASURED WITH A DIGITAL VOLT METER OR OSCILLOSCOPE WITHOUT INPUT SIGNAL.
   CONDITION --- CD STOP MODE
2. UNLESS OTHERWISE SPECIFIED RESISTORS ARE 1/6W 5% CARBON RESISTOR.
   ALL RESISTANCE VALUES ARE IN OHM(Ω).
   ALL CAPACITORS ARE CERAMIC CAPACITOR OR MYLAR CAPACITOR.
   ALL CAPACITANCE VALUES ARE IN μF(P=pF).

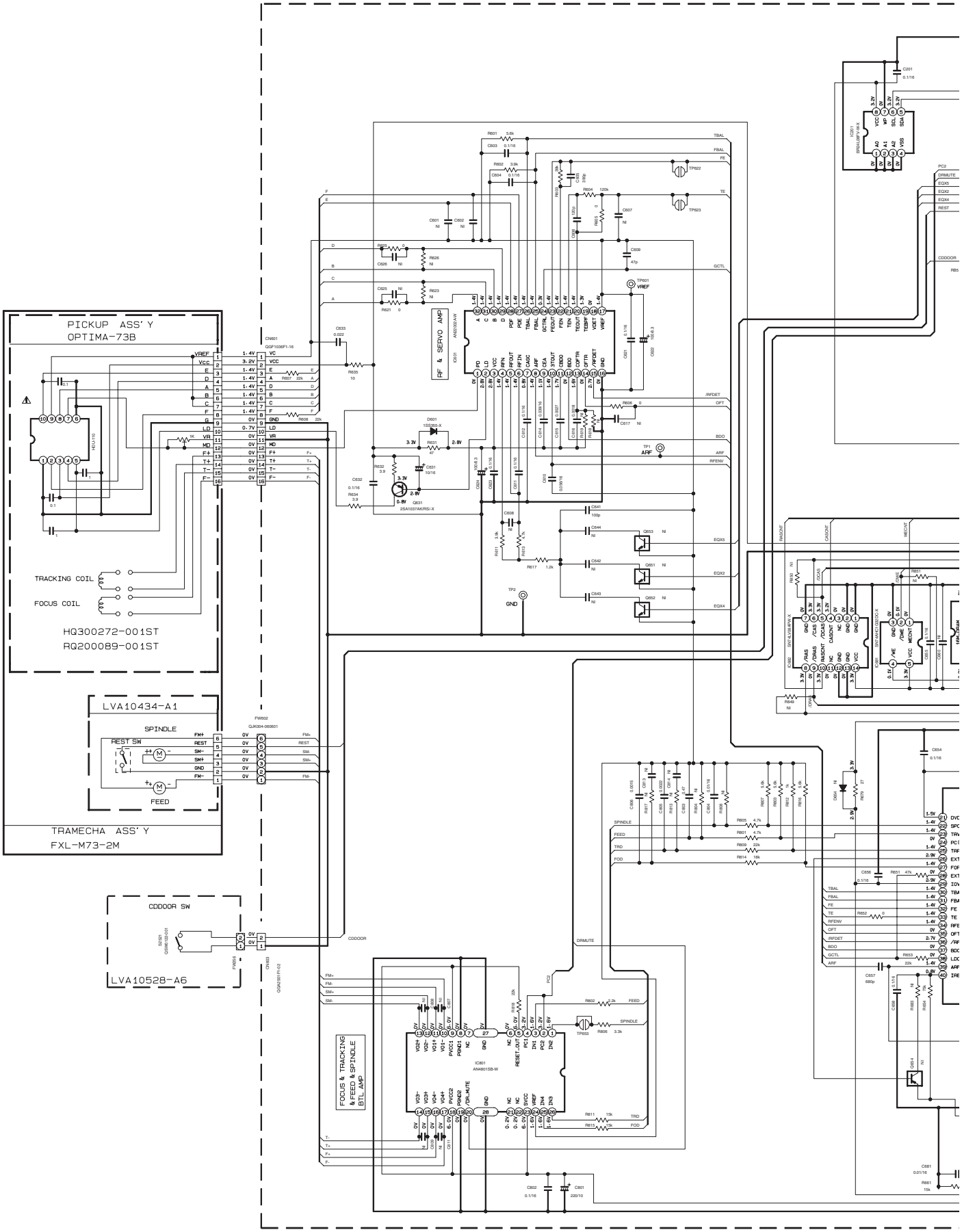
ALL INDUCTANCE VALUES ARE IN μH(m=mH).
ALL E.CAPACITORS ARE SHOWN IN THE FORM OF CAPACITANCE (μF)/RATED VOLTAGE (V).
ALL DIODES ARE 1SS254 (OR HSS104TJ OR MA165
ALL NPN TRANSISTOR ARE 2SC2785/EF/-T
ALL PNP TRANSISTOR ARE 2SA1175/HFE/-T

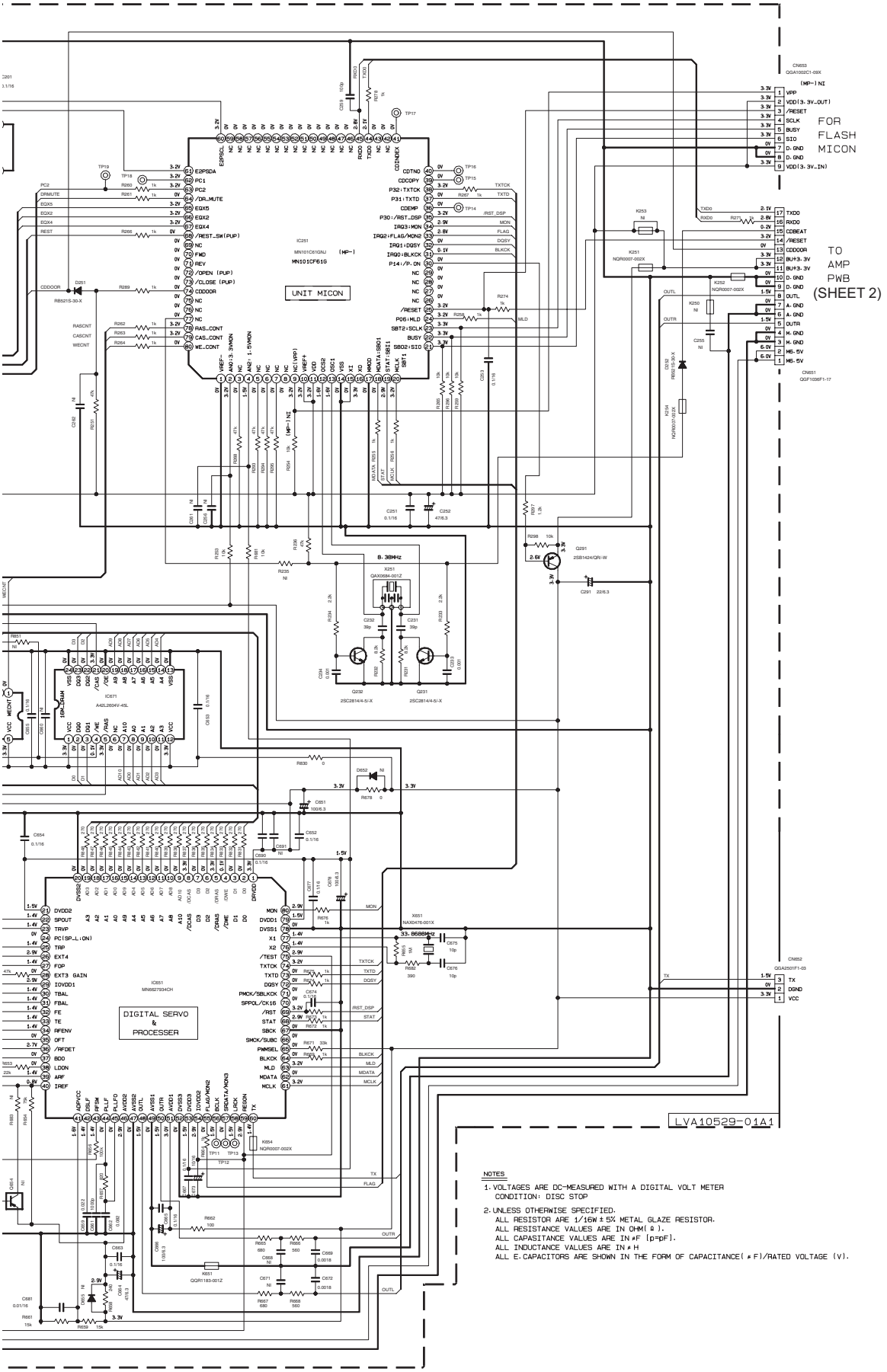


Parts are safety assurance parts.
When replacing those parts make sure to use the specified one.

SHEET 4

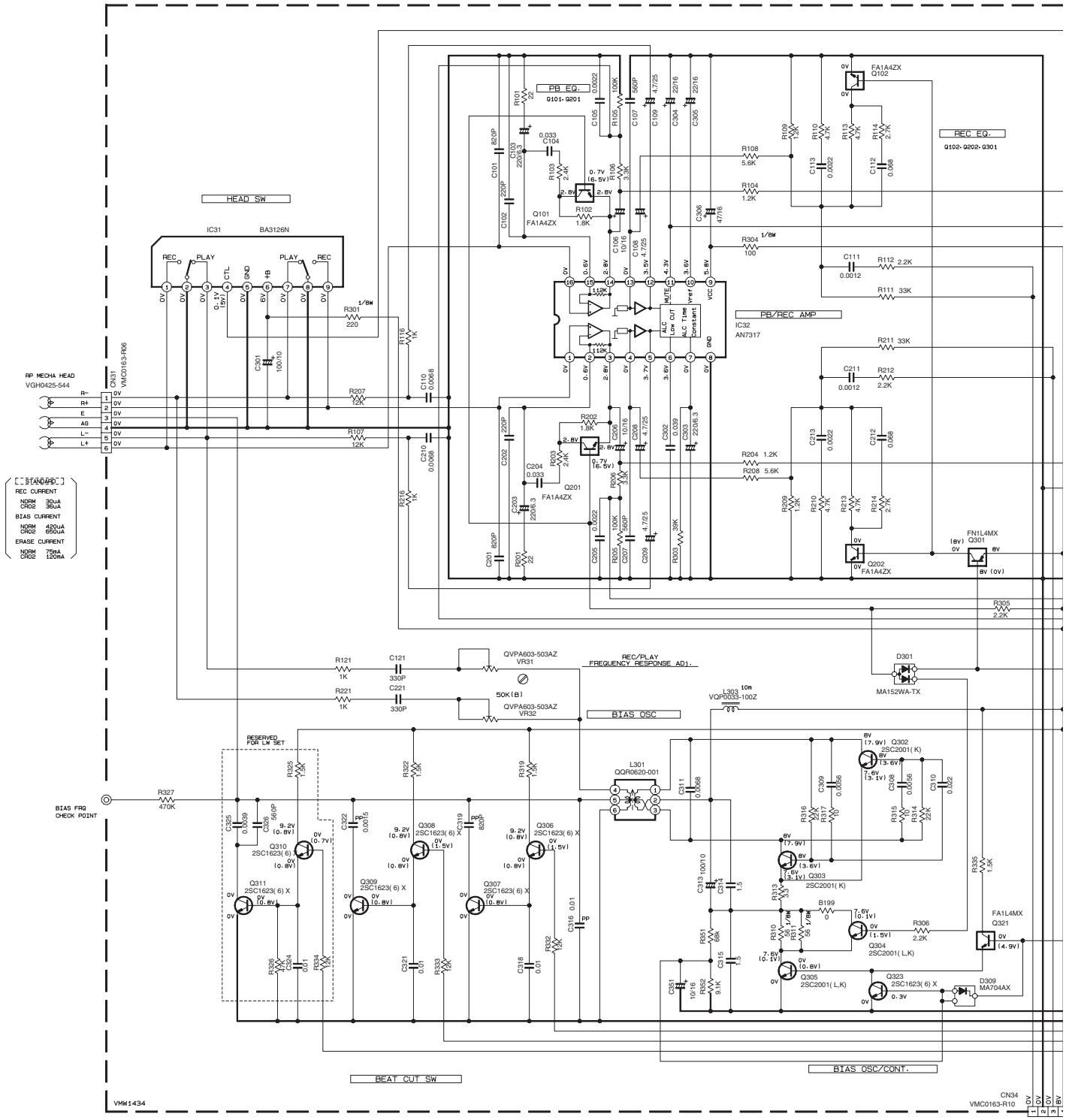
■ CD control section




FOR FLASH MICON
TO AMP PWB (SHEET 2)
UNIT MICON
DIGITAL SERVO & PROCESSER
LVA10529-01A1
NOTES
1. VOLTAGES ARE DC-MEASURED WITH A DIGITAL VOLT METER CONDITION: DISC STOP
2. UNLESS OTHERWISE SPECIFIED.
ALL RESISTOR ARE 1/16W ± 5% METAL GLAZE RESISTOR.
ALL RESISTANCE VALUES ARE IN OHM(Ω).
ALL CAPASITANCE VALUES ARE IN μF (p=pF).
ALL INDUCTANCE VALUES ARE IN μ H
ALL E.CAPACITORS ARE SHOWN IN THE FORM OF CAPACITANCE(μF)/RATED VOLTAGE (V).

SHEET 5

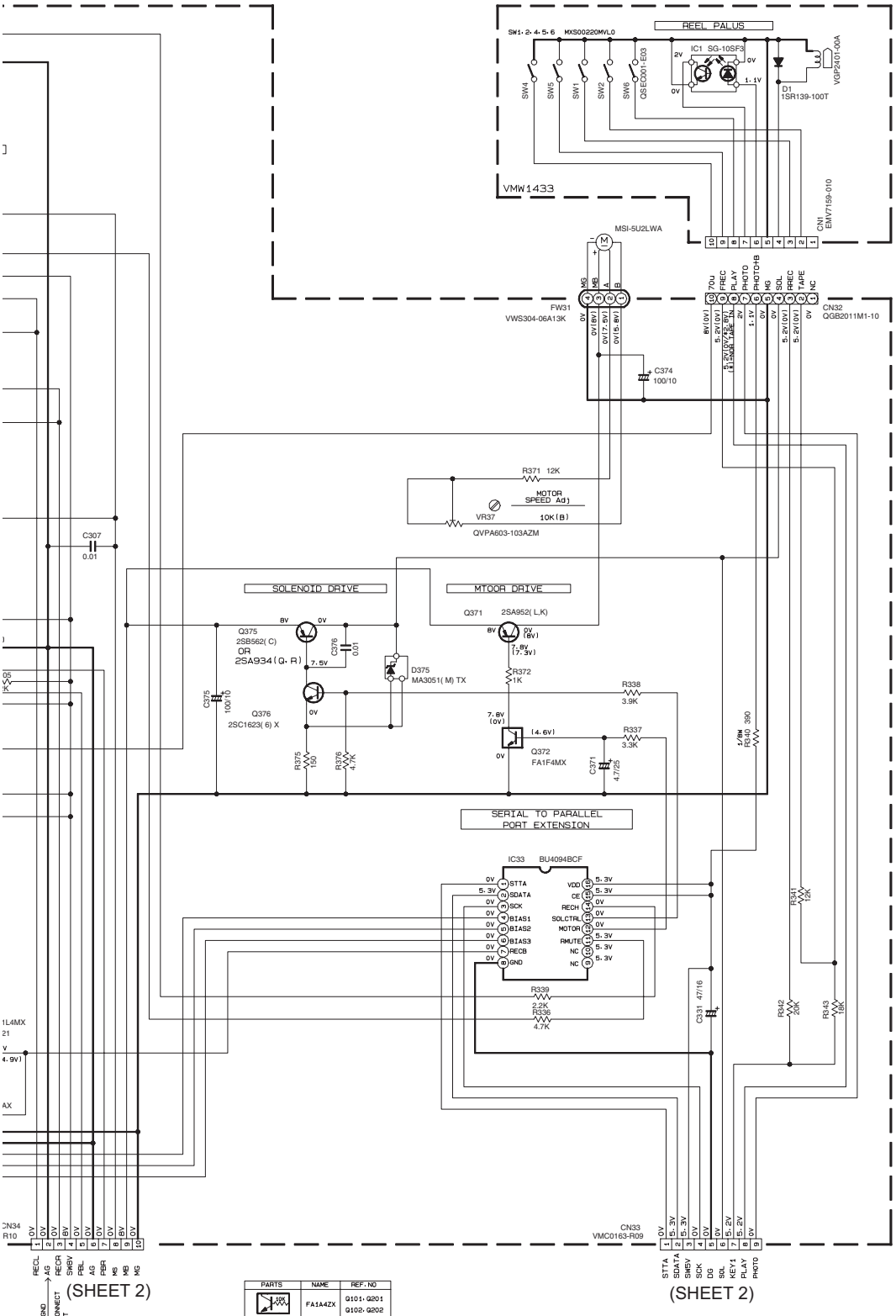
■ Head amplifier section



NOTES

1. VOLTAGES ARE DC-MEASURED WITH A DIGITAL VOLT METER OR OSCILLOSCOPE WITHOUT INPUT SIGNAL.
   CONDITION : MECHA STOP MODE

2. UNLESS OTHERWISE SPECIFIED , RESISTORS ARE 1/10W ±5% METAL GLAZE RESISTOR.
   ALL RESISTANCE VALUES ARE IN OHM(Ω).
   ALL CAPACITORS ARE CERAMIC CAPACITOR OR MYLAR CAPACITOR.
   ALL CAPACITANCE VALUES ARE IN #F(P=pF).
   ALL INDUCTANCE VALUES ARE IN #H(m=mH).
   ALL E.CAPACITORS ARE SHOWN IN THE FORM OF CAPACITANCE (#F)/RATED VOLTAGE (V).
   PP POLYPROPYLENE CAPACITOR



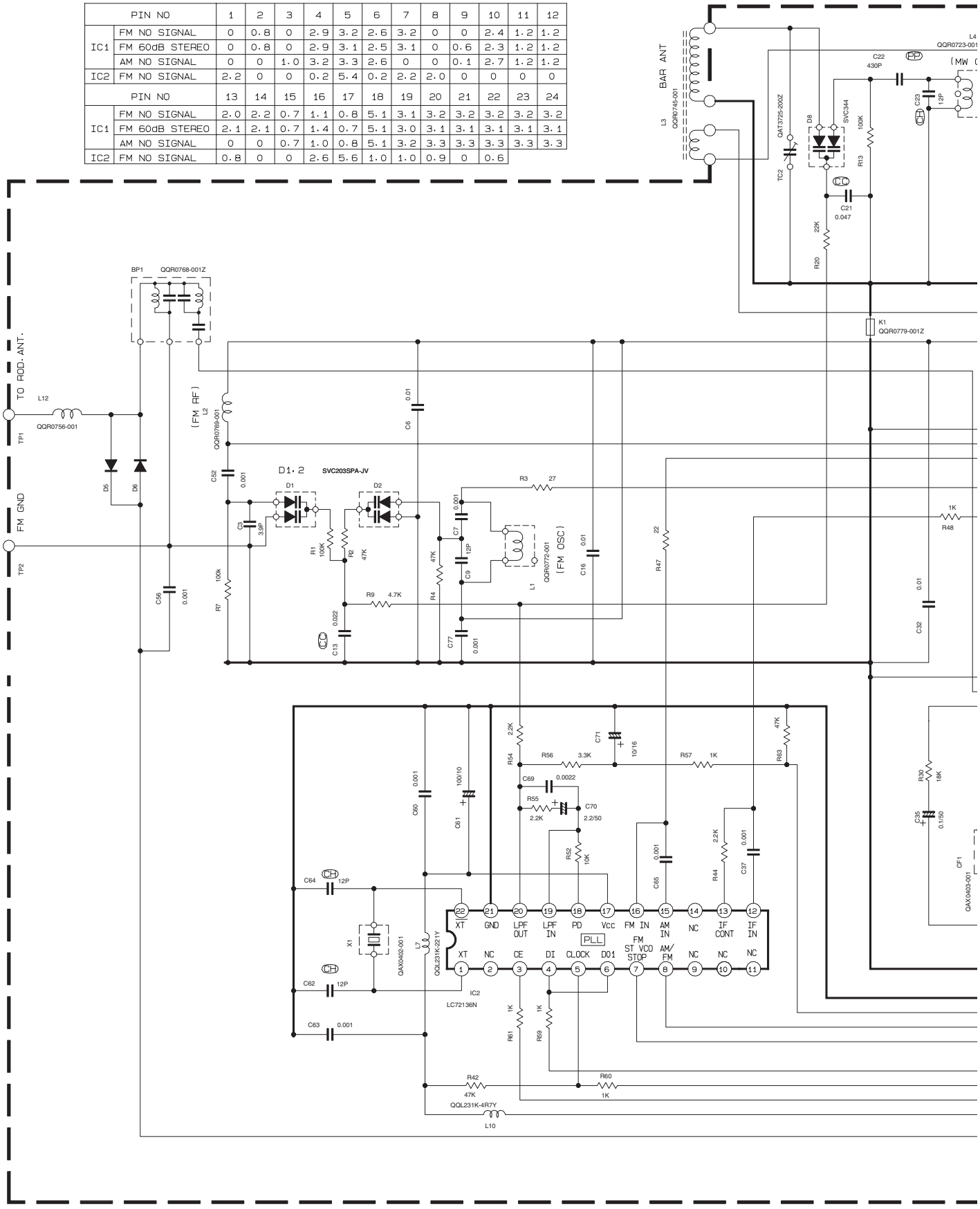
PARTS	NAME	REF.NO
10K 10K	FA1A4ZX	Q101, Q201 Q102, Q202
47K 47K	FN1L4MX	Q301
47K 47K	FA1L4MX	Q321
68K 68K	FA1F4MX	Q371

SHEET 6

■ Tuner section

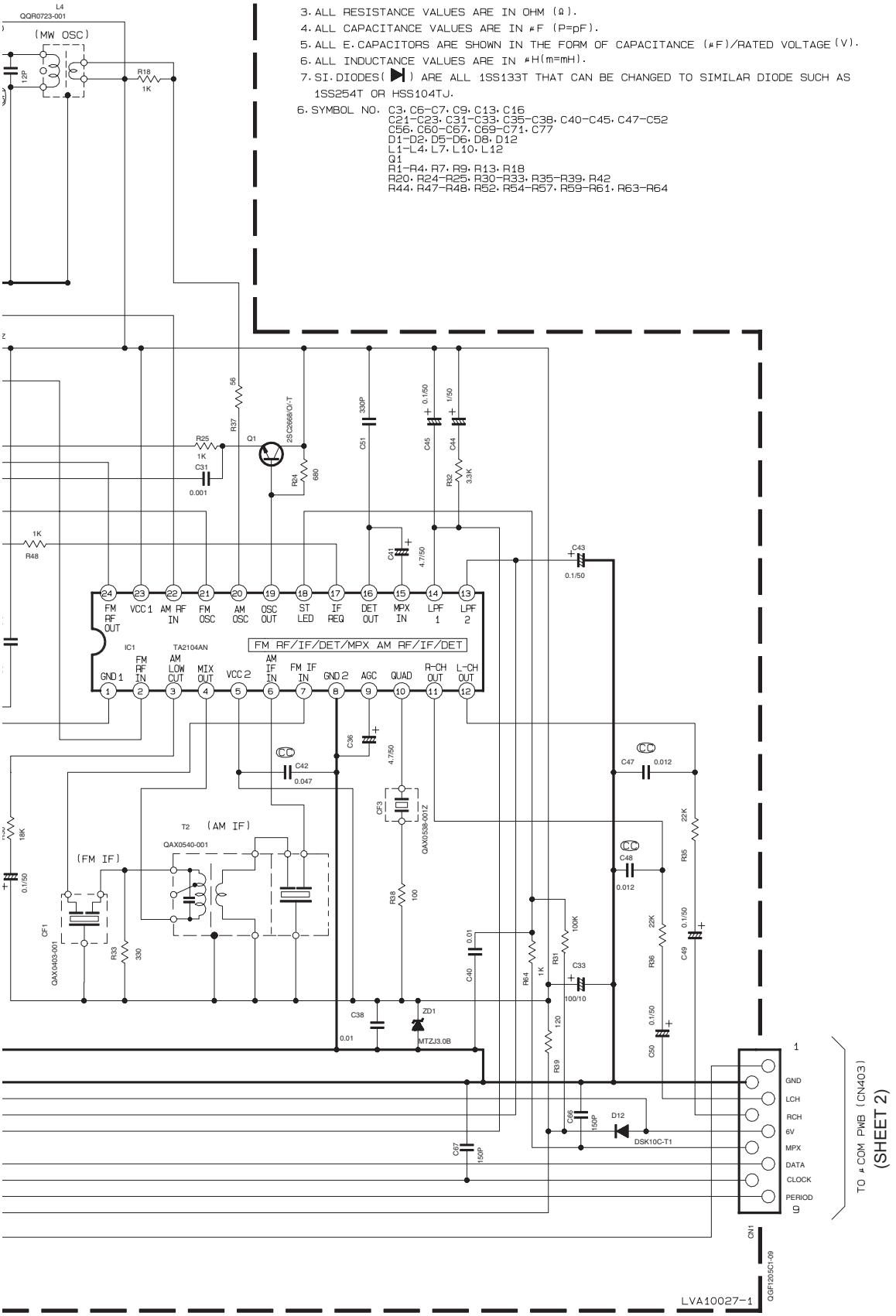
PIN NO		1	2	3	4	5	6	7	8	9	10	11	12
IC1	FM NO SIGNAL	0	0.8	0	2.9	3.2	2.6	3.2	0	0	2.4	1.2	1.2
	FM 60dB STEREO	0	0.8	0	2.9	3.1	2.5	3.1	0	0.6	2.3	1.2	1.2
	AM NO SIGNAL	0	0	1.0	3.2	3.3	2.6	0	0	0.1	2.7	1.2	1.2
IC2	FM NO SIGNAL	2.2	0	0	0.2	5.4	0.2	2.2	2.0	0	0	0	0

PIN NO		13	14	15	16	17	18	19	20	21	22	23	24
IC1	FM NO SIGNAL	2.0	2.2	0.7	1.1	0.8	5.1	3.1	3.2	3.2	3.2	3.2	3.2
	FM 60dB STEREO	2.1	2.1	0.7	1.4	0.7	5.1	3.0	3.1	3.1	3.1	3.1	3.1
	AM NO SIGNAL	0	0	0.7	1.0	0.8	5.1	3.2	3.3	3.3	3.3	3.3	3.3
IC2	FM NO SIGNAL	0.8	0	0	2.6	5.6	1.0	1.0	0.9	0	0.6		



NOTES

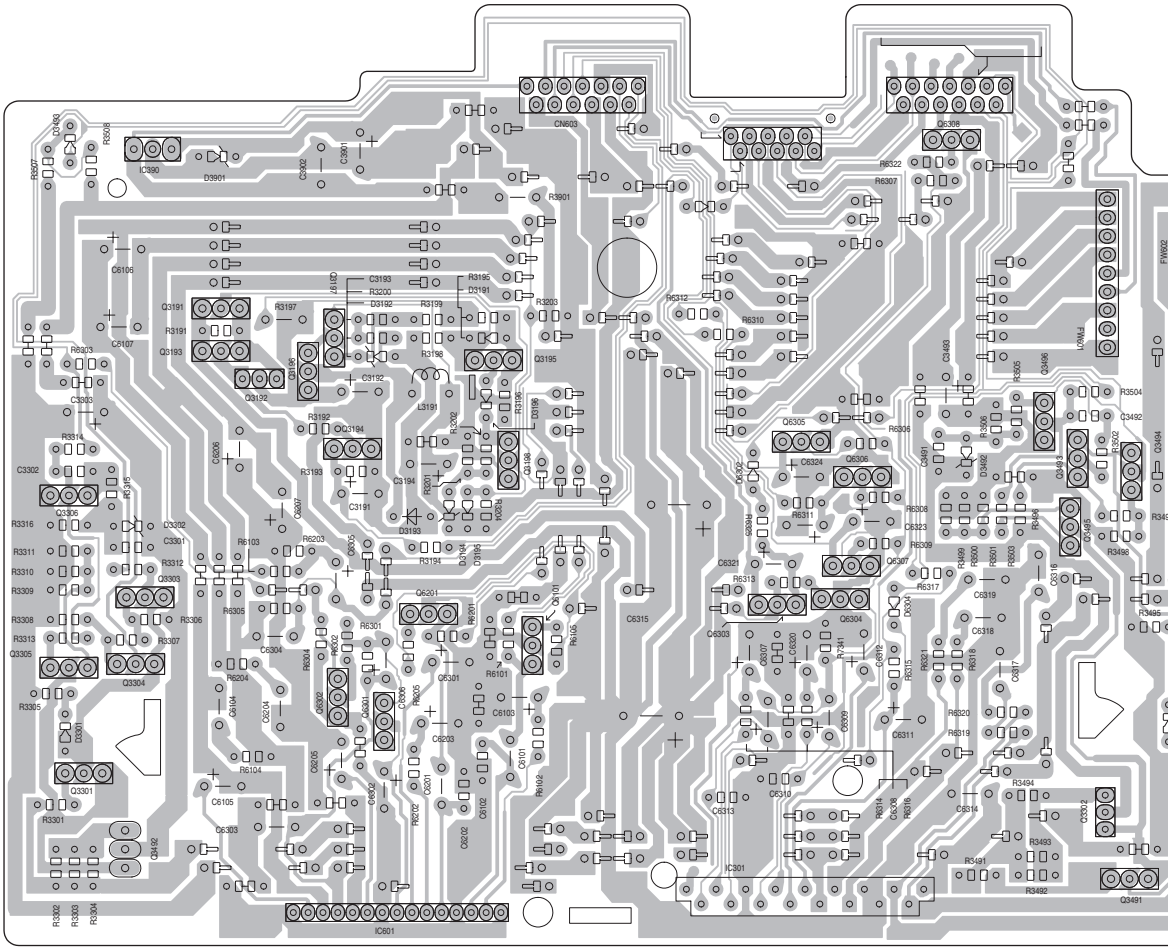
1. VOLTAGES OF THE TABLE ARE DC-MEASURED WITH A DIGITAL VOLT METER.
2. ALL RESISTORS ARE 1/6W ±5% CARBON RESISTOR.
3. ALL RESISTANCE VALUES ARE IN OHM (Ω).
4. ALL CAPACITANCE VALUES ARE IN μF (P=pF).
5. ALL E.CAPACITORS ARE SHOWN IN THE FORM OF CAPACITANCE (μF)/RATED VOLTAGE(V).
6. ALL INDUCTANCE VALUES ARE IN μH(m=mH).
7. SI.DIODES(▶|) ARE ALL 1SS133T THAT CAN BE CHANGED TO SIMILAR DIODE SUCH AS 1SS254T OR HSS104TJ.
6. SYMBOL NO. C3, C6-C7, C9, C13, C16
C21-C23, C31-C33, C35-C38, C40-C45, C47-C52
C56, C60-C67, C69-C71, C77
D1-D2, D5-D6, D8, D12
L1-L4, L7, L10, L12
Q1
R1-R4, R7, R9, R13, R18
R20, R24-R25, R30-R33, R35-R39, R42
R44, R47-R48, R52, R54-R57, R59-R61, R63-R64



SHEET 7

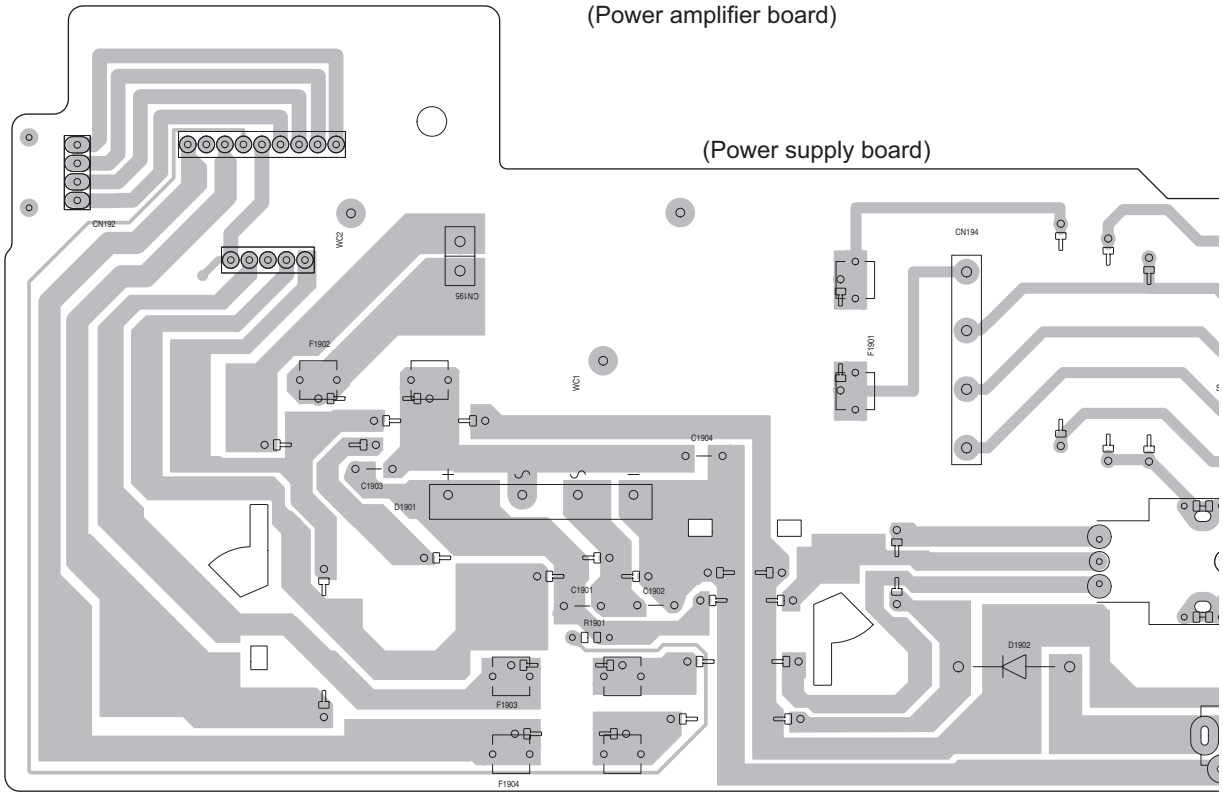
Printed circuit boards

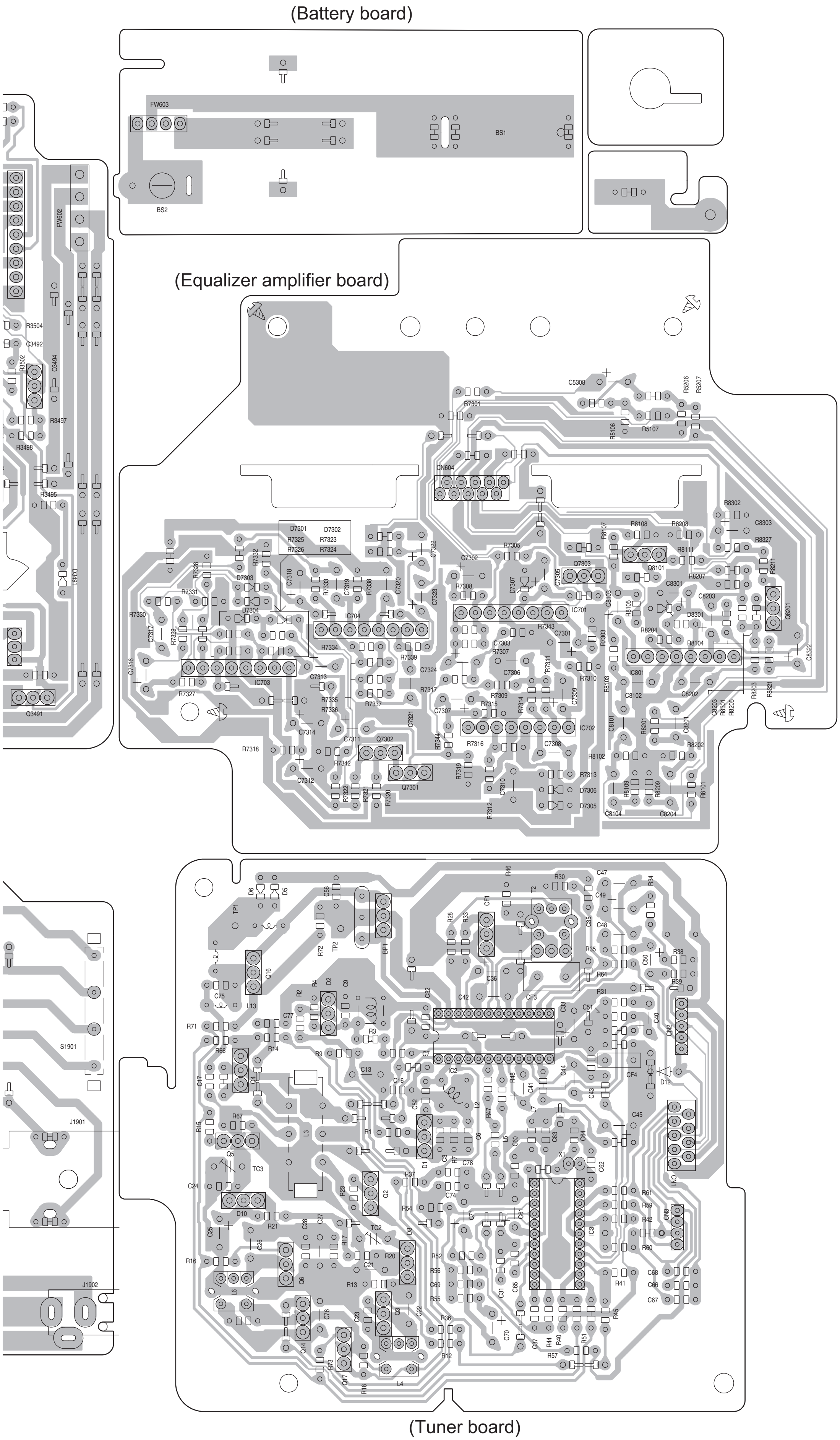
■ Main board



(Power amplifier board)

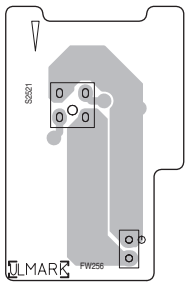
(Power supply board)



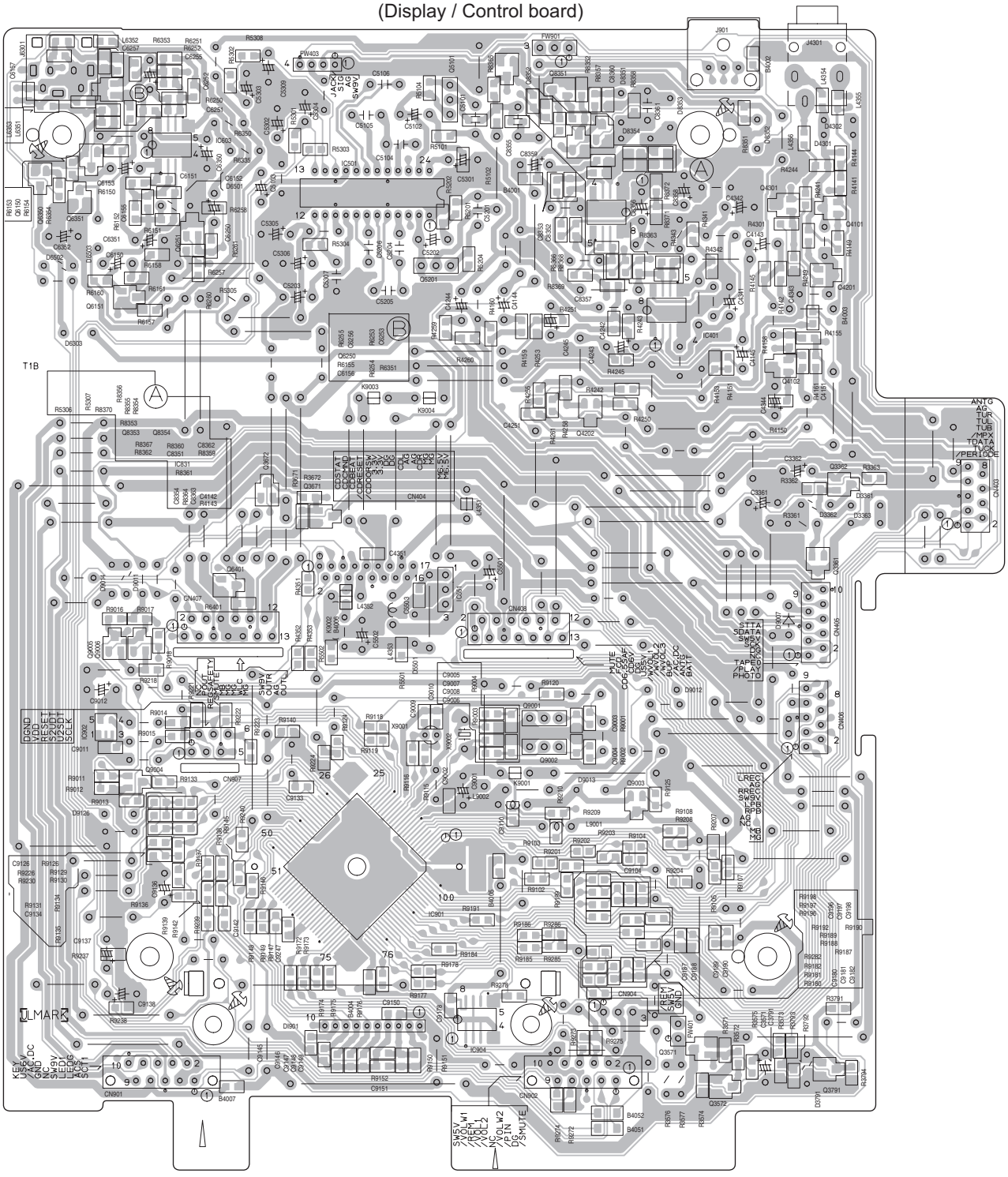

(Battery board)
(Equalizer amplifier board)
(Tuner board)

■ Micon board

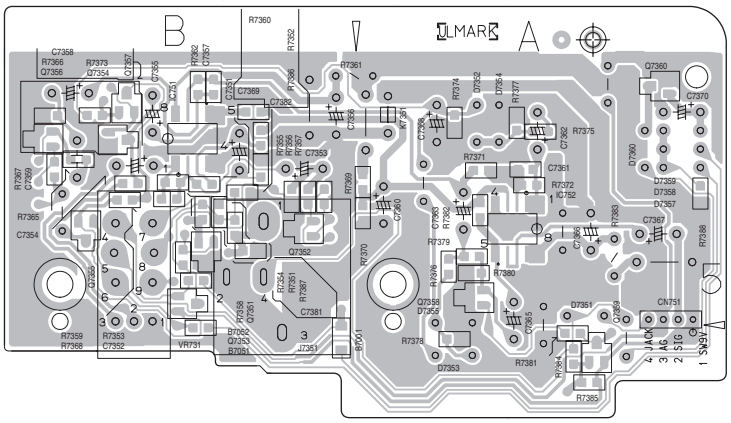
(CD door switch board)



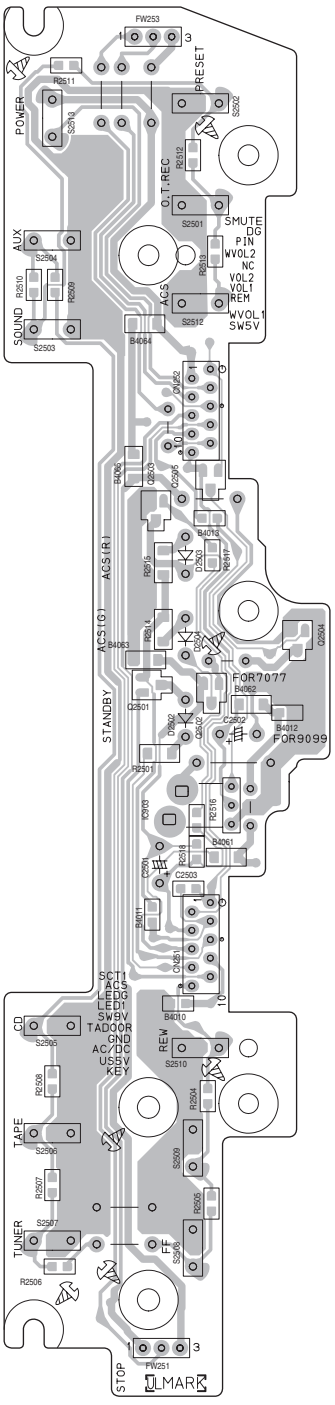
(Display / Control board)



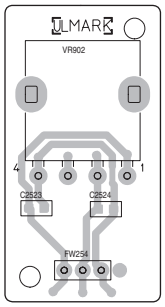
(Guitar and Mic. jack board)



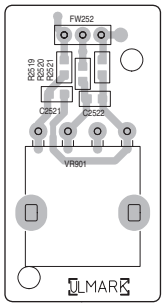
(Key board)



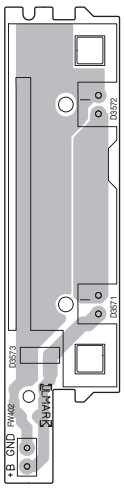
(Woofer encoder board)



(Volume encoder board)

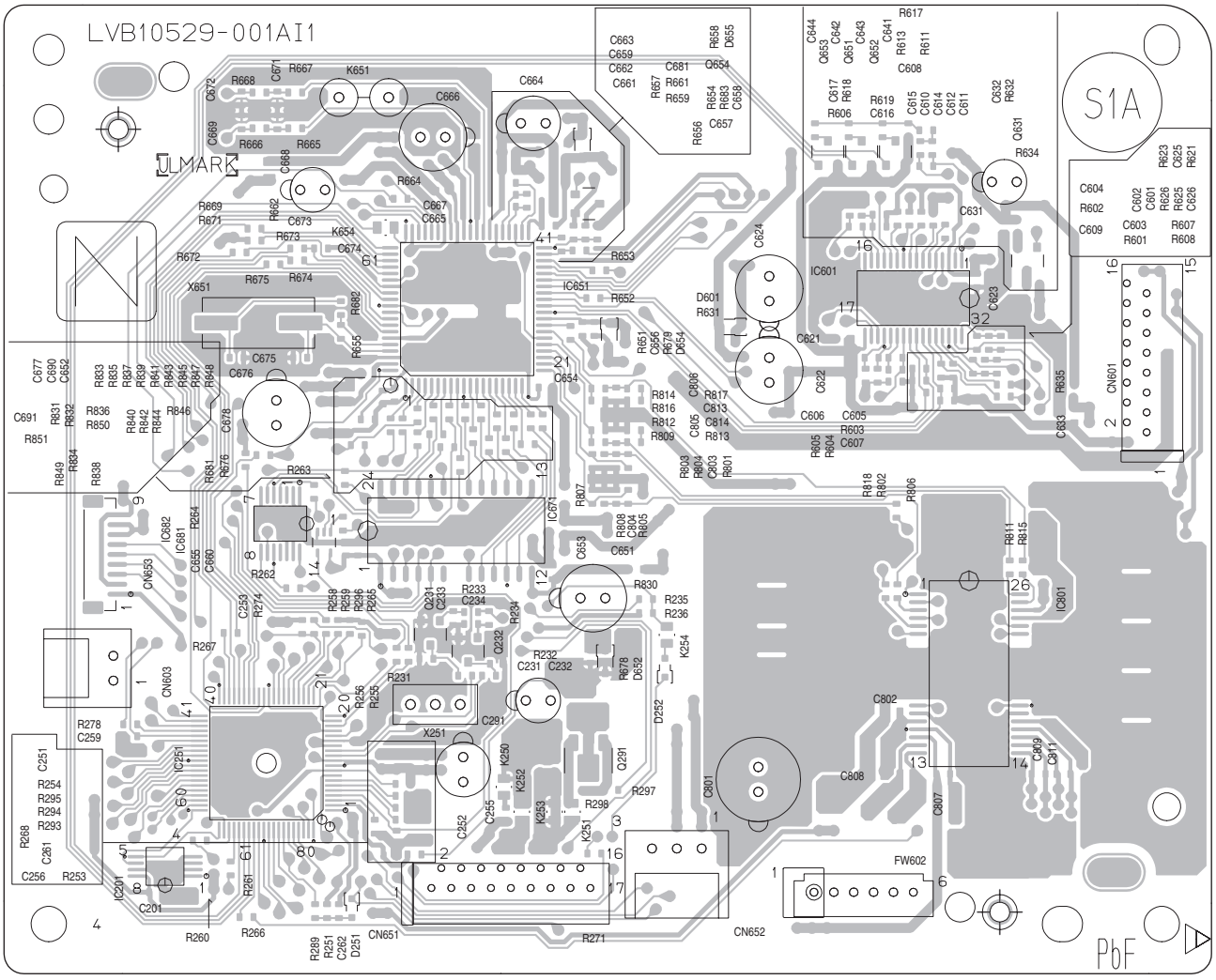


(LED board)

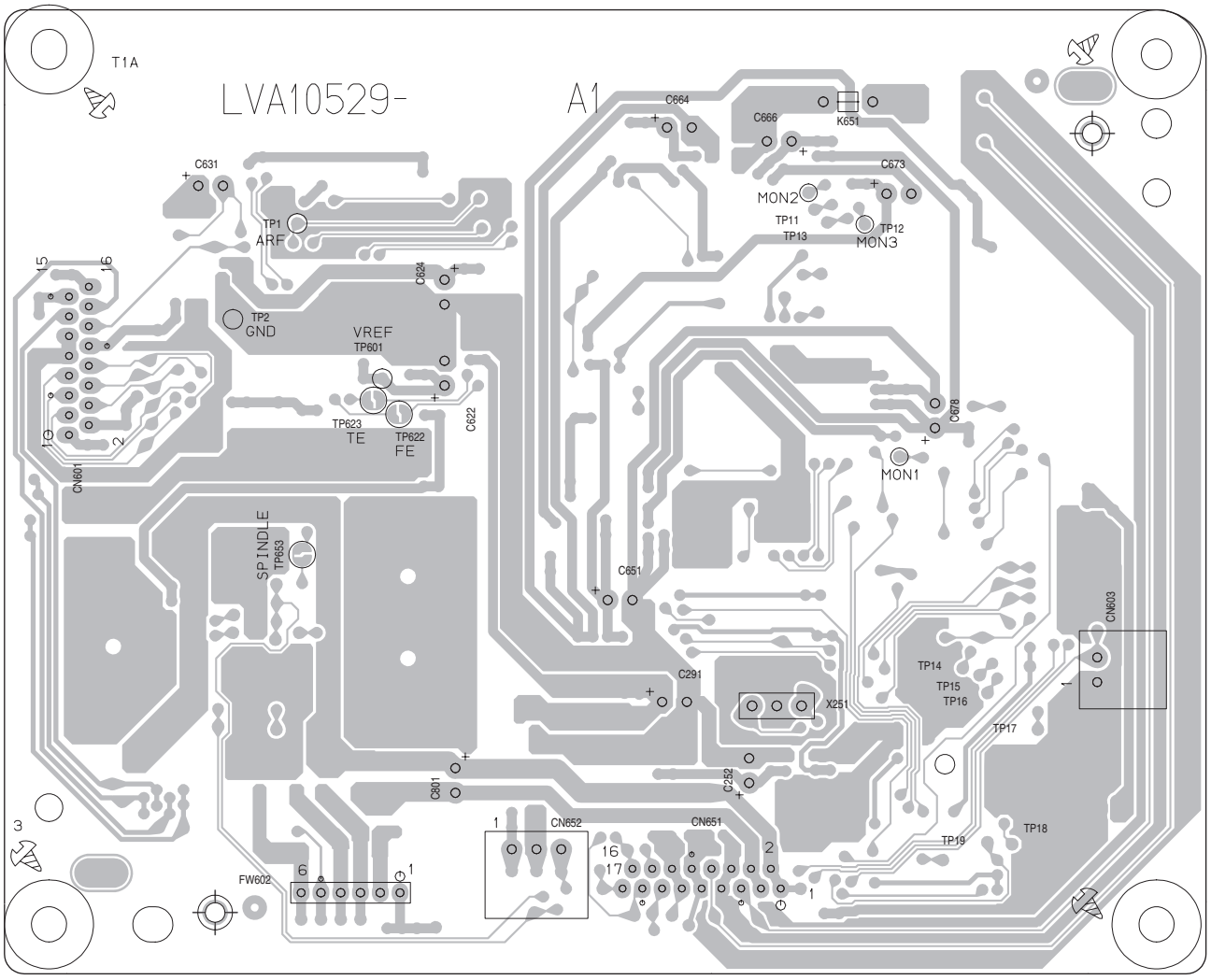


■ CD servo board

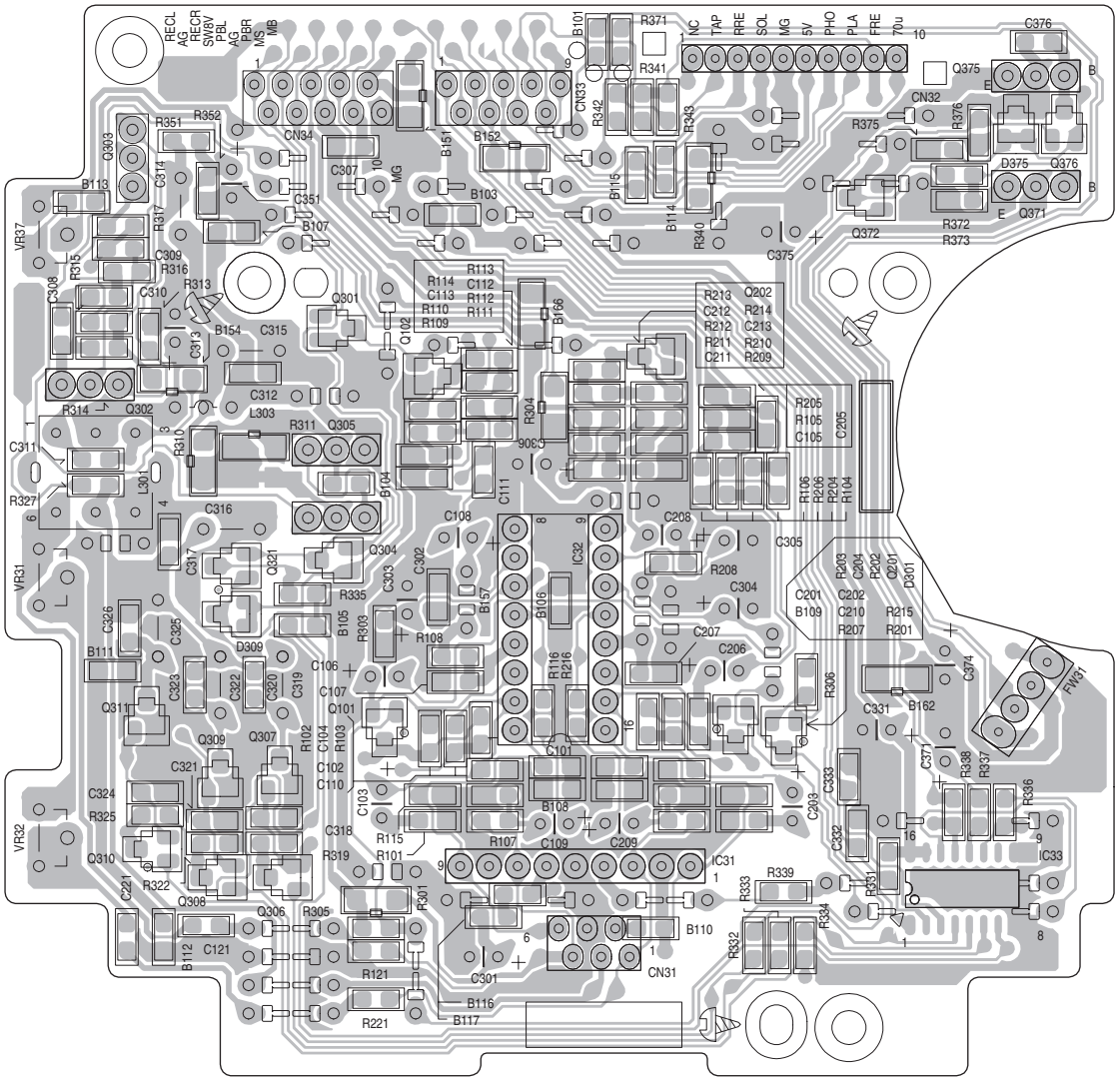
Forward side



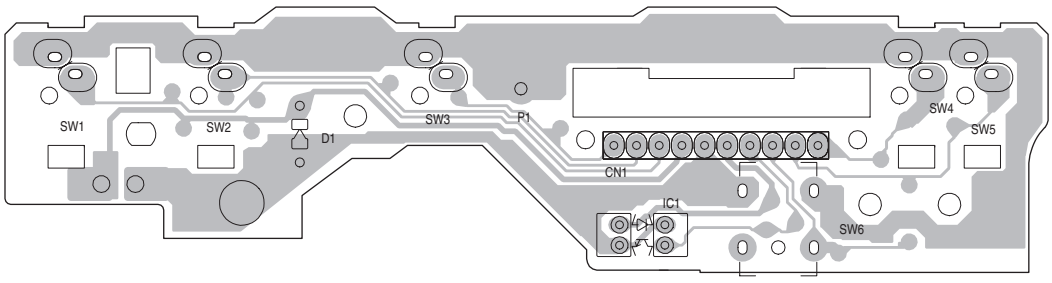
Reverse side



■ Head amplifier & Mechanism control board



■ Switch board



< MEMO >

JVC
Victor Company of Japan, Limited
AV & MULTIMEDIA COMPANY AUDIO/VIDEO SYSTEMS CATEGORY 10-1,1chome,Ohwatari-machi,Maebashi-city,371-8543,Japan

(No.MB333SCH)

Printed in Japan
VPT

PARTS LIST

[RV-NB1]

* All printed circuit boards and its assemblies are not available as service parts.

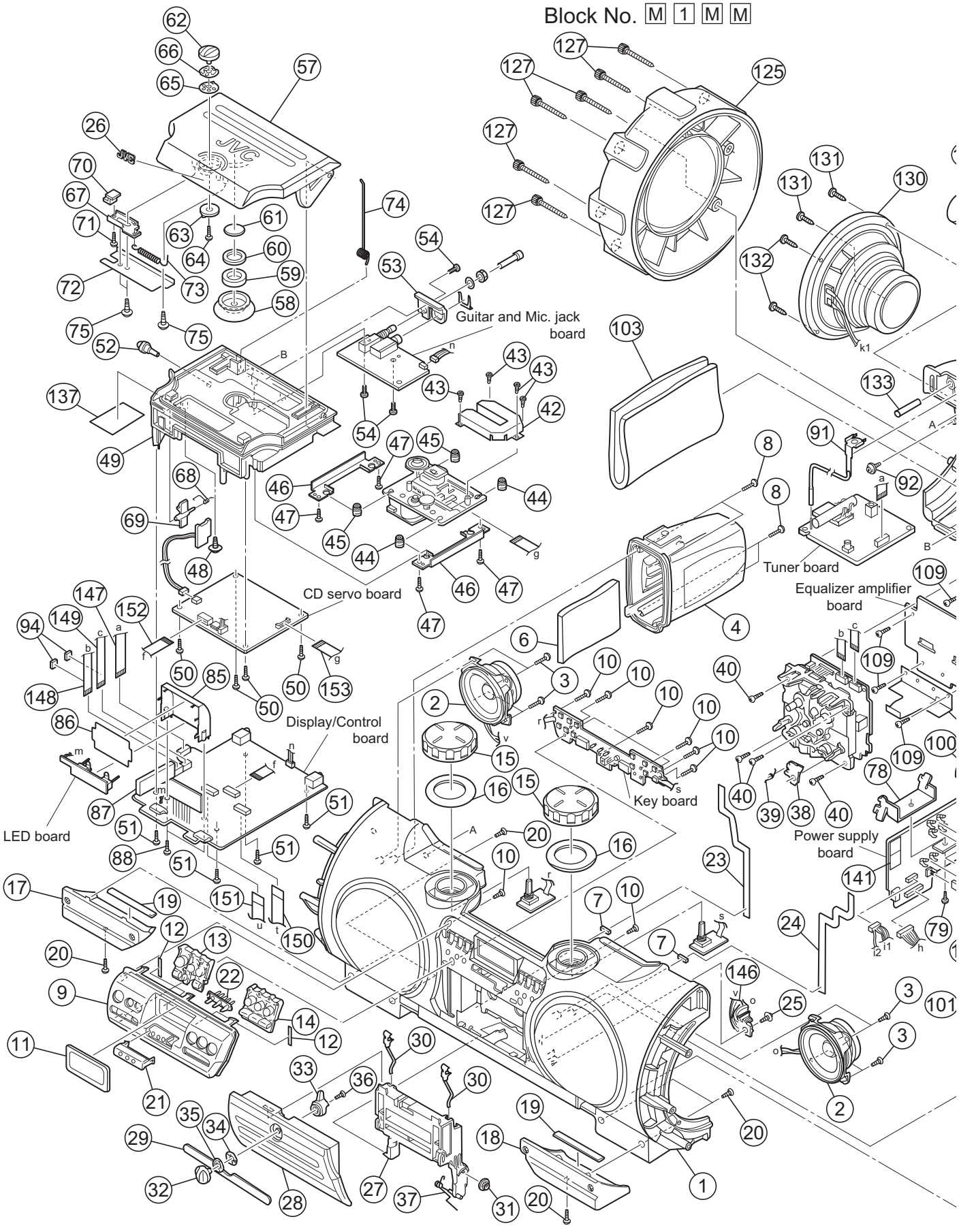
Area suffix

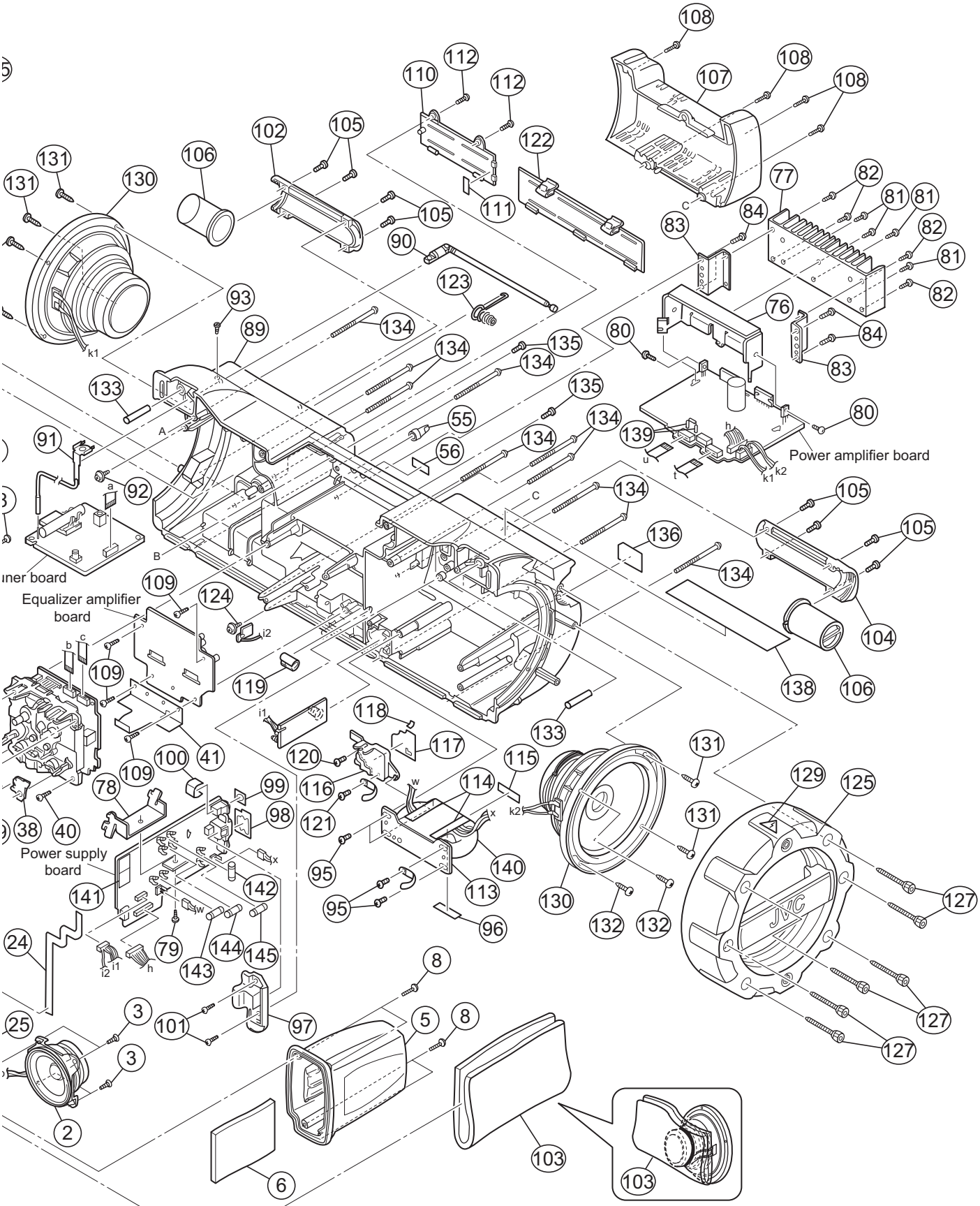
J ---------- U.S.A.
C ---------- Canada

- Contents -

Exploded view of general assembly and parts list (Block No.M1) ---------- 3- 2
CD mechanism assembly and parts list (Block No.MB) ---------- 3- 6
Cassette mechanism assembly and parts list (Block No.MP) ---------- 3- 8
Electrical parts list (Block No.01~06) ---------- 3-10
Packing materials and accessories parts list (Block No.M3)---------- 3-20

Exploded view of general assembly and parts list




Power amplifier board
Equalizer amplifier board
Power supply board

General Assembly

Block No. [M][1][M][M]

⚠	Symbol No.	Part No.	Part Name	Description	Local
	1	VJG1500-00HUL	FRONT CABI SA		
	2	LE10008-024A	SPEAKER	(x2)	
	3	QYSBSF3010ZA	TAP SCREW	M3 x 10mm(x8)	
	4	VYH2280-002	CAP (L)		
	5	VYH2281-002	CAP (R)		
	6	VKZ4389-009	SOUND ABSOBER	(x2)	
	7	VYSH102-097	SPACER	(x2)	
	8	QYSBSF3010ZA	TAP SCREW	M3 x 10mm(x8)	
	9	VJD2495-061	FRONT COVER(A)		
	10	QYSBSF2608ZA	TAP SCREW	M2.6 x 8mm(x10)	
	11	VJK4520-001	LCD LENS		
	12	VYSH102-098	SPACER	(x2)	
	13	VXP3890-031	POWER BUTTON(A)		
	14	VXP3891-061	FUNC. BTN(A)		
	15	VXL4455-002	VOL.KNOB	(x2)	
	16	VYTS539-003	VOL.SHEET	(x2)	
	17	VJF3007-001	FOOT		
	18	VJF3007-002	FOOT		
	19	VYSA1R6-079	SPACER	(x2)	
	20	QYSBSF3010ZA	TAP SCREW	M3 x 10mm(x6)	
	21	VJK4516-002	LENS		
	22	VJD5512-001	LED LENS		
	23	VYTH539-002	PACKING SHEET L		
	24	VYTH540-002	PACKING SHEET R		
	25	QYSBSFG3010ZA	TAP SCREW	M3 x 10mm	
	26	PQ45130-7	JVC MARK		
	27	VJT2389-041	CASSETTE HOLDER		
	28	VJT2390-031	DOOR COVER		
	29	VJT4246-061	DOOR LENS		
	30	VKY4180-401	CASSETTE SPRING	(x2)	
	31	VYH5601-001	GEAR		
	32	VXL4458-031	EJECT KNOB		
	33	VYH8174-001	CAM(A)		
	34	VKY4736-001	PLATE SPRING(A)		
	35	VKY4737-002	PLATE SPRING(B)		
	36	QYSBSF2008ZA	TAP SCREW	M2 x 8mm	
	37	VKW5309-001	DOOR SPRING		
	38	VKL7850-303	EJECT SAFTY(R)		
	39	VKW5258-003	TORSION SPRING		
	40	QYSBSF3014ZA	TAP SCREW	M3 x 14mm(x4)	
	41	VMA4728-003	HEAD SHIELD		
	42	LV34126-002A	PICK COVER		
	43	QYSDSF2006NA	TAP SCREW	M2 x 6mm(x4)	
	44	FMYH4003-003	INSULATOR	(x2)	
	45	FMYH4003-004	INSULATOR	(x2)	
	46	VYH7815-001	CD MECHA HOLDER	(x2)	
	47	QYSBSF3010ZA	TAP SCREW	M3 x 10mm(x4)	
	48	E65923-009	TAPPING SCREW		
	49	LV10179-002A	CD CASE		
	50	QYSBSF3010ZA	TAP SCREW	M3 x 10mm(x4)	
	51	QYSBSF3010ZA	TAP SCREW	M3 x 10mm(x4)	
	52	VYH4769-002SS	GEAR		
	53	LV40779-001A	BRACKET		
	54	QYSBSF3010ZA	TAP SCREW	M3 x 10mm(x3)	
	55	LV40759-001A	KNOB		
	56	LV40760-001A	MIC PLATE		
	57	VJT1060-061	CD DOOR		
	58	LV35263-001A	CLAMPER		
	59	LV42929-001A	P.C.MAGNET		
	60	VYH7314-001	YOKE		
	61	LV43667-001A	CLAMPER WEIGHT		
	62	VXL4458-031	EJECT KNOB		
	63	VYH8197-001	CAM(B)		
	64	QYSBSF2008ZA	TAP SCREW	M2 x 8mm	
	65	VKY4736-001	PLATE SPRING(A)		
	66	VKY4737-002	PLATE SPRING(B)		
	67	VYH8178-001	SLIDER(B)		
	68	VKW5334-001	SWITCH SPRING		
	69	VYH8204-001	SWITCH LEVER		
	70	VYH8205-001	LOCK		
	71	QYSDSF2606MA	TAP SCREW	M2.6 x 6mm	
	72	VYH8176-003	COVER		
	73	VKW5352-001	TENSION SPRING		
	74	VKW5335-002	CD DOOR SPRING		

⚠	Symbol No.	Part No.	Part Name	Description	Local
	75	VKZ4794-003	SPECIAL SCREW	(x3)	
	76	VMH3021-001	HEAT SINK		
	77	VYH3892-005	HEAT SINK		
	78	VMH4055-002	HEAT SINK		
	79	QYSBSF3010ZA	TAP SCREW	M3 x 10mm	
	80	QYSBSF3010ZA	TAP SCREW	M3 x 10mm(x2)	
	81	QYSBSF3010ZA	TAP SCREW	M3 x 10mm(x4)	
	82	QYSBST3008ZA	TAP SCREW	M3 x 8mm(x4)	
	83	VYH8188-002	BRACKET	(x2)	
	84	QYSBSF3010ZA	TAP SCREW	M3 x 10mm(x4)	
	85	LV35225-001A	LCD HOLDER		
	86	LV43895-001A	SHEET		
	87	LV43896-001A	LED HOLDER		
	88	QYSDSF2608ZA	TAP SCREW	M2.6 x 8mm(x2)	
	89	VJG1502-072UL	REAR CABI		
	90	QZW0152-001	ROD ANTENNA		
	91	VYH5012-005	TERMINAL LUG		
	92	E65923-009	TAPPING SCREW		
	93	QYSDSP3012NA	SCREW	M3 x 12mm	
	94	VYSH101-009	SPACER	(x2)	
	95	QYSBSF4012ZA	TAP SCREW	M4 x 12mm(x4)	
	96	VYSH101-028	SPACER		
	97	VYH8179-002	JACK HOLDER		
	98	VYTH543-001	SHEET(AC)		
	99	VYTH544-001	SHEET(DC)		
	100	VYSA1R6-080	SPACER		
	101	QYSBSF3010ZA	TAP SCREW	M3 x 10mm(x2)	
	102	VJD2503-004UL	DUCT		
	103	VKZ4796-003	SOUND ABSOBER	(x2)	
	104	VJD2503-003UL	DUCT		
	105	QYSBSF3010ZA	TAP SCREW	M3 x 10mm(x8)	
	106	VJD5510-001	DUCT CAP	(x2)	
	107	VJD1230-062UL	GRILLE		
	108	QYSBSF3010ZA	TAP SCREW	M3 x 10mm(x4)	
	109	QYSBSF3010ZA	TAP SCREW	M3 x 10mm(x4)	
	110	VJE3036-061	BATT.LID		
	111	VYSA1R4-056	SPACER		
	112	QYSBSF3010ZA	TAP SCREW	M3 x 10mm(x2)	
	113	VYK3023-001	SHIELD		
	114	VYSA1R6-079	SPACER	(x2)	
	115	LV30225-0X7A	SPACER		
	116	VYH8199-061	COVER		
	117	VYTH542-001	SHEET(COVER)		
	118	VYSH101-029	SPACER		
	119	VYSH101-027	SPACER		
	120	QYSBSF3010ZA	TAP SCREW	M3 x 10mm	
	121	QYSBSF3010ZA	TAP SCREW	M3 x 10mm	
	122	VJC2603-061	BATTERY COVER		
	123	VYH5657-001	BATTERY SPRING		
	124	E65923-009	TAPPING SCREW		
	125	VJD1233-00HUL	SIDE PROTECT.AS	(x2)	
	127	VKZ4795-002	SPECIAL SCREW	(x12)	
	129	VND4113-001	G.CAUTION		
	130	LE10016-057A	SPEAKER	(x2)	
	131	QYSBSF4012ZA	TAP SCREW	M4 x 12mm(x4)	
	132	QYSBSF4012ZA	TAP SCREW	M4 x 12mm(x4)	
	133	VKH3012-073	SHAFT(E)	(x2)	
	134	QYSBSF3035ZA	TAP SCREW	M3 x 35mm(x10)	
	135	QYSBSF3010ZA	TAP SCREW	M3 x 10mm(x2)	
⚠	136	LV35226-005A	RATING LABEL		
	137	LV42035-002A	LASER CAUTION		
	138	LV43835-001A	EMC LABEL		
	139	QXTG109-010	GLASS TUBE	(x2)	
⚠	140	QQT0466-002	POWER TRANSF	T 1901	
	141	LV43517-001A	FUSE CAUTION		
⚠	142	QMF51N2-1R25-J1	FUSE	F 1901 1.25A AC250V	
⚠	143	QMF51U1-8R0-J1	FUSE	F 1902 8A AC125V	
⚠	144	QMF51U1-6R3-J1	FUSE	F 1903 6.3A AC125V	
⚠	145	QMF51U1-6R3-J1	FUSE	F 1904 6.3A AC125V	
	146	WJJ0002-001A	E-SI C WIRE C-C		
	147	QUQ412-0912CJ	FFC WIRE	9pin 12cm	
	148	QUQ412-0916CJ	FFC WIRE	9pin 16cm	
	149	QUQ412-1018CJ	FFC WIRE	10pin 18cm	
	150	QUQ412-1310CJ	FFC WIRE	13pin 10cm	
	151	QUQ412-1310CJ	FFC WIRE	13pin 10cm	
	152	QUQ110-1712AJ	FFC WIRE	17pin 12cm	
	153	QUQ110-1607AJ	FFC WIRE	16pin 7cm	

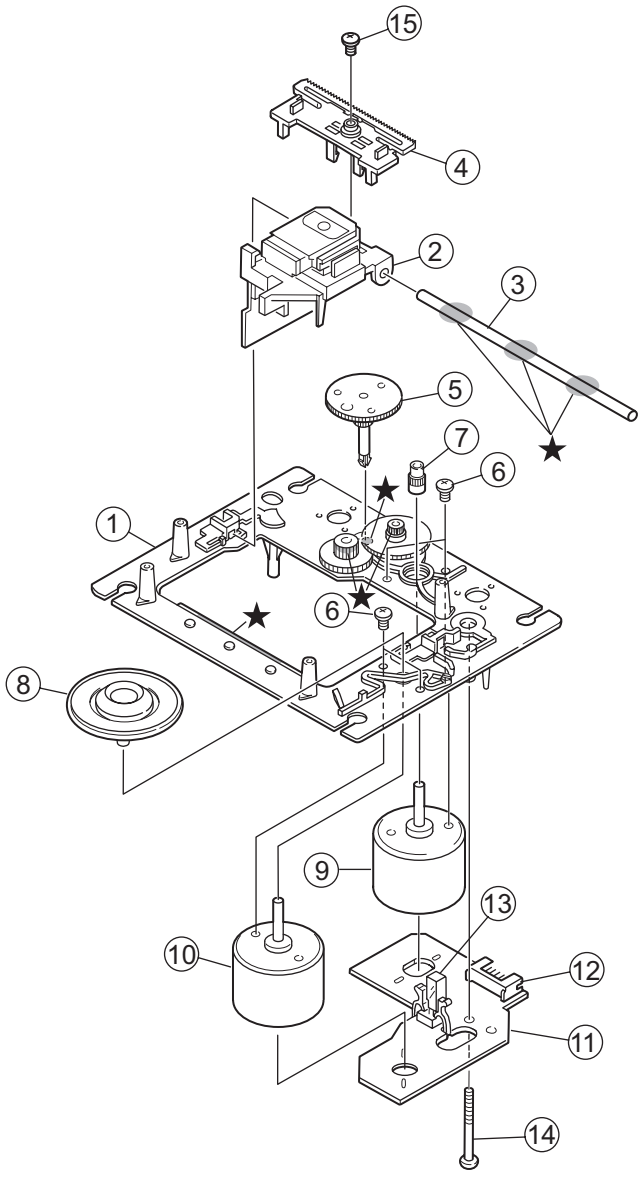
CD mechanism assembly and parts list

Block No. M B M M

FXL-M73-2M

Grease & Bond

★ = JVG-31N



The parts without symbol number are not service.

CD mechanism

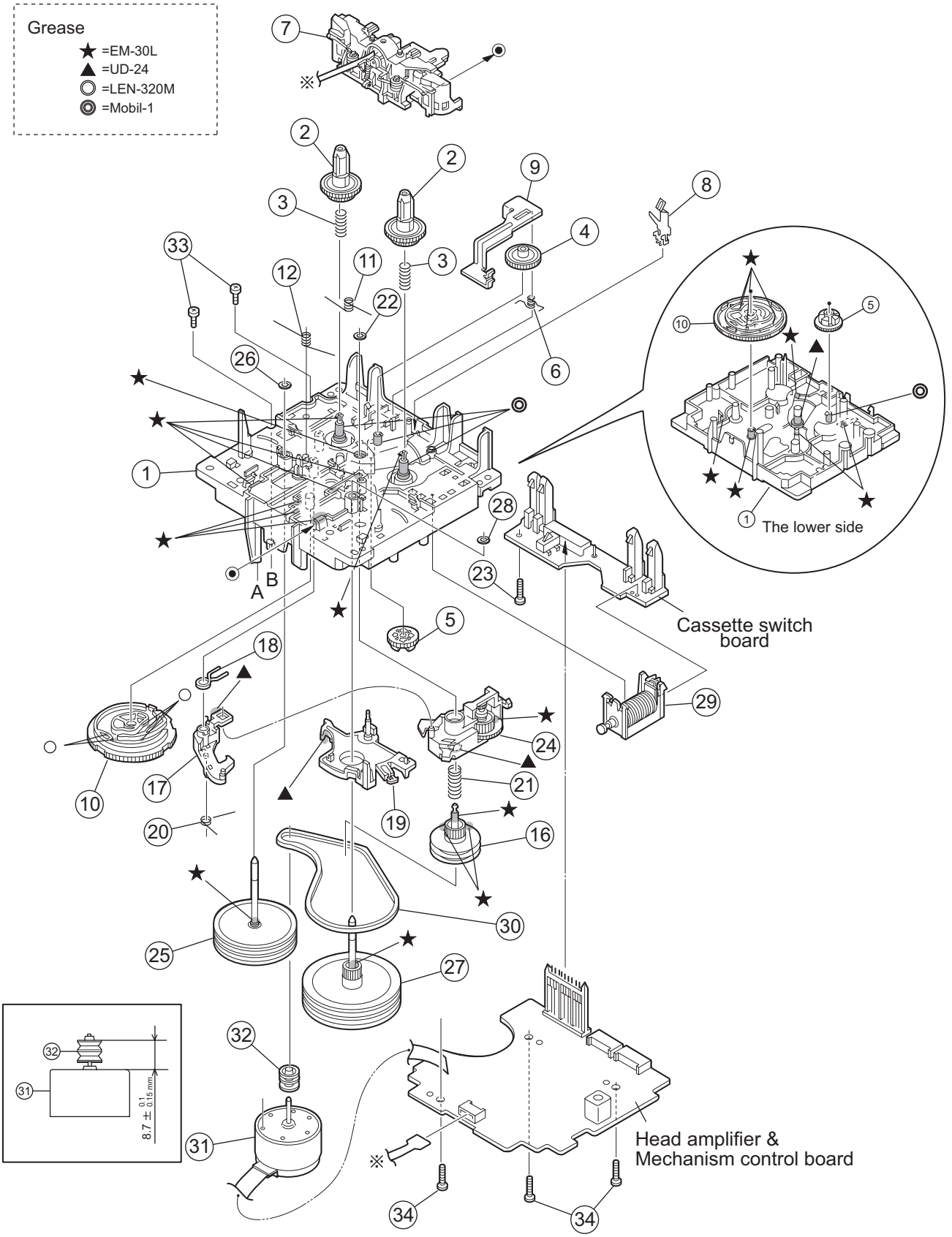
Block No. [M][B][M][M]

⚠	Symbol No.	Part No.	Part Name	Description	Local
	1	LV10723-002A	CD MECHA BASE A		
	2	OPTIMA-73B2	CD PICK		
	3	E406777-002SM	C.D SHAFT		
	4	LV31002-001A	CD RACK		
	5	E307745-441SM	C.D GEAR 3		
	6	QYSDSP2003N	SCREW	M2 x 3mm(x4)	
	7	E406750-442SM	PINION		
	8	LV43119-002A	T.T PACKING		
	9	QAR0253-001	FEED MOTOR		
	10	QAR0130-001	SP MOTOR		
	11	EMW10190-441	CIR BOARD		
	12	QGA2001F1-06	CONNECTOR	W-B (1-6)	
	13	QSW0506-001	LEAF SWITCH		
	14	E75832-221SS	SPECIAL SCREW		
	15	QYSDSF2006Z	SCREW	M2 x 6mm	

Cassette mechanism assembly and parts list

Block No. M P M M

SLC-S11M



The parts without symbol number are not service.

Cassette mechanism

Block No. [M][P][M][M]

⚠	Symbol No.	Part No.	Part Name	Description	Local
	1	VKS1165-00N	CHASSIS B. ASSY		
	2	VKS2274-002	REEL GEAR	(x2)	
	3	VKW5286-002	B.T. SPRING	(x2)	
	4	VKS5559-001	PLAY IDLE GEAR		
	5	VKS5595-002	BLIND		
	6	LV42013-001A	EARTH SPRING		
	7	SLC-RP1SVM	HEAD MOUNT ASSY		
	8	VKY3149-002	CASSETTE SP.		
	9	VKM3906-004	PLAY SW.LEVER		
	10	VKS1166-003	CONTROL CAM		
	11	VKW5279-002	HEAD BASE SP(R)		
	12	VKW5280-001	HEAD BASE SP(L)		
	16	VKS5603-00G	MAIN PULLEY ASS		
	17	VKS3785-001MM	FR ARM		
	18	VKW5284-002	SWING SPRING		
	19	VKS2278-003	TRIGGER ARM		
	20	VKW5301-001	FR SPRING		
	21	VKW5266-001	ELEVATOR SPRING		
	22	WDL214035-2	SLIT WASHER		
	23	QYSBSF2005Z	TAP SCREW	M2 x 5mm	
	24	VKS3786-00G	CLUTCH ASSY		
	25	VKF3205-00B	F.WHEEL ASSY(R)		
	26	WDL183425	SLIT WASHER		
	27	VKF3207-00C	F.WHEEL ASSY(L)		
	28	WDL173525-6	SLIT WASHER		
	29	VKZ3174-00A	DC SOLENOID		
	30	LV42836-001A	CAPSTAN BELT		
	31	QAR0309-001	D.C.MOTOR		
	32	VKR4761-003	MOTOR PULLEY		
	33	QYSPSP2604Z	SCREW	M2.6 x 4mm(x2)	
	34	QYSBSF2608Z	TAP SCREW	M2.6 x 8mm(x3)	

Electrical parts list

Main board

Block No. [0][1]

⚠ Symbol No.	Part No.	Part Name	Description	Local
⚠ IC301	TA8233H	IC		
⚠ IC390	KIA78DL06PI	IC		
⚠ IC601	TA8223K	IC		
IC701	BA15218N	IC		
IC702	BA15218N	IC		
IC703	BA15218N	IC		
IC704	BA15218N	IC		
IC801	BA15218N	IC		
Q3191	KRA110M-T	TRANSISTOR		
⚠ Q3192	2SA1359/OY/	TRANSISTOR		
Q3193	KRA111M-T	DIGI TRANSISTOR		
Q3194	KTC3199/GL/-T	TRANSISTOR		
Q3195	KTA1267/YG/-T	TRANSISTOR		
⚠ Q3196	KTA1023/OY/-T	TRANSISTOR		
Q3197	KTC3199/GL/-T	TRANSISTOR		
Q3198	KRC111M-T	TRANSISTOR		
Q3301	KTA1267/YG/-T	TRANSISTOR		
⚠ Q3302	2SA1359/OY/	TRANSISTOR		
Q3303	KRA114M-T	TRANSISTOR		
Q3304	KRC114M-T	TRANSISTOR		
Q3305	KTC3199/GL/-T	TRANSISTOR		
Q3306	KTC3199/GL/-T	TRANSISTOR		
Q3491	KTA1267/YG/-T	TRANSISTOR		
⚠ Q3492	KTA1046/Y/	TRANSISTOR		
Q3493	KRA114M-T	TRANSISTOR		
Q3494	KRC114M-T	TRANSISTOR		
Q3495	KTC3199/GL/-T	TRANSISTOR		
Q3496	KTC3199/GL/-T	TRANSISTOR		
Q6101	KTC3203/OY/-T	TRANSISTOR		
Q6201	KTC3203/OY/-T	TRANSISTOR		
Q6301	2SA952/LK/-T	TRANSISTOR		
Q6302	KTC3199/GL/-T	TRANSISTOR		
Q6303	KRA102M-T	DIGI TRANSISTOR		
Q6304	KTC3203/OY/-T	TRANSISTOR		
Q6305	KRC102M-T	DIGI TRANSISTOR		
Q6306	KRC102M-T	DIGI TRANSISTOR		
Q6307	KRC102M-T	DIGI TRANSISTOR		
Q6308	KRC102M-T	DIGI TRANSISTOR		
Q7301	KTC3199/GL/-T	TRANSISTOR		
Q7302	KTC3199/GL/-T	TRANSISTOR		
Q7303	2SK301/R/-T	JUNCTION FET		
Q8101	KTC3199/GL/-T	TRANSISTOR		
Q8201	KTC3199/GL/-T	TRANSISTOR		
⚠ D1901	D5SBA20-S1	SI DIODE		
D1902	6A10E2	SI DIODE		
D3191	1SS133-T2	SI DIODE		
D3192	MTZJ7.5A-T2	Z DIODE		
D3193	SRT14	DIODE		
D3194	MTZJ7.5A-T2	Z DIODE		
D3195	1SS133-T2	SI DIODE		
D3196	1SS133-T2	SI DIODE		
D3301	1SS133-T2	SI DIODE		
D3302	MTZJ9.1A-T2	Z DIODE		
D3491	1SS133-T2	SI DIODE		
D3492	MTZJ9.1A-T2	Z DIODE		
D3493	1SS133-T2	SI DIODE		
D3901	MTZJ8.2B-T2	Z DIODE		
D6301	1SS133-T2	SI DIODE		
D6302	1SS133-T2	SI DIODE		
D6304	1SS133-T2	SI DIODE		
D7301	1SS133-T2	SI DIODE		
D7302	1SS133-T2	SI DIODE		
D7303	1SS133-T2	SI DIODE		
D7304	1SS133-T2	SI DIODE		
D7305	1SS133-T2	SI DIODE		
D7306	1SS133-T2	SI DIODE		
D7307	MTZJ4.3B-T2	Z DIODE		
D8301	MTZJ4.3B-T2	Z DIODE		
⚠ C1901	QFLC1HJ-683Z	M CAPACITOR	0.068uF 50V J	
⚠ C1902	QFLC1HJ-683Z	M CAPACITOR	0.068uF 50V J	
⚠ C1903	QFLC1HJ-683Z	M CAPACITOR	0.068uF 50V J	
⚠ C1904	QFLC1HJ-683Z	M CAPACITOR	0.068uF 50V J	
C3191	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M	
C3192	QETN1EM-107Z	E CAPACITOR	100uF 25V M	
C3193	QCBB1HK-101Y	C CAPACITOR	100pF 50V K	
C3194	QETN1EM-107Z	E CAPACITOR	100uF 25V M	
C3301	QDYB1CM-103Y	C CAPACITOR	0.01uF 16V M	
C3302	QCBB1HK-221Y	C CAPACITOR	220pF 50V K	
C3303	QETN1CM-107Z	E CAPACITOR	100uF 16V M	
C3491	QDYB1CM-103Y	C CAPACITOR	0.01uF 16V M	
C3492	QCBB1HK-221Y	C CAPACITOR	220pF 50V K	
C3493	QETN1CM-107Z	E CAPACITOR	100uF 16V M	
C3901	QETN1CM-107Z	E CAPACITOR	100uF 16V M	
C3902	QFLC1HJ-104Z	M CAPACITOR	0.1uF 50V J	
C5308	QER61HM-474Z	E CAPACITOR	0.47uF 50V M	
C6101	QFVF1HJ-224Z	MF CAPACITOR	0.22uF 50V J	
C6102	QCBB1HK-151Y	C CAPACITOR	150pF 50V K	
C6103	QETN1EM-107Z	E CAPACITOR	100uF 25V M	
C6104	QFVF1HJ-104Z	MF CAPACITOR	0.1uF 50V J	
C6105	QETN1EM-476Z	E CAPACITOR	47uF 25V M	
C6106	QETN1EM-108Z	E CAPACITOR	1000uF 25V M	
C6107	QTE1V06-226Z	E CAPACITOR	22uF 35V	
C6201	QFVF1HJ-224Z	MF CAPACITOR	0.22uF 50V J	
C6202	QCBB1HK-151Y	C CAPACITOR	150pF 50V K	
C6203	QETN1EM-107Z	E CAPACITOR	100uF 25V M	
C6204	QFVF1HJ-104Z	MF CAPACITOR	0.1uF 50V J	
C6205	QETN1EM-476Z	E CAPACITOR	47uF 25V M	
C6206	QETN1EM-108Z	E CAPACITOR	1000uF 25V M	
C6207	QTE1V06-226Z	E CAPACITOR	22uF 35V	
C6301	QETN1EM-227Z	E CAPACITOR	220uF 25V M	
C6302	QETN1HM-106Z	E CAPACITOR	10uF 50V M	
C6303	QFVF1HJ-104Z	MF CAPACITOR	0.1uF 50V J	
C6304	QFVF1HJ-154Z	MF CAPACITOR	0.15uF 50V J	
C6305	QETN1HM-105Z	E CAPACITOR	1uF 50V M	
C6306	QETN1AM-227Z	E CAPACITOR	220uF 10V M	
C6307	QETN1HM-106Z	E CAPACITOR	10uF 50V M	
C6308	QETN1HM-474Z	E CAPACITOR	0.47uF 50V M	
C6309	QETN1HM-474Z	E CAPACITOR	0.47uF 50V M	
C6310	QCBB1HK-101Y	C CAPACITOR	100pF 50V K	
C6311	QETN1HM-106Z	E CAPACITOR	10uF 50V M	
C6312	QETN1EM-227Z	E CAPACITOR	220uF 25V M	
C6313	QCBB1HK-101Y	C CAPACITOR	100pF 50V K	
C6314	QFVF1HJ-104Z	MF CAPACITOR	0.1uF 50V J	
C6315	QETM1EM-688	E CAPACITOR	6800uF 25V M	
C6316	QFVF1HJ-104Z	MF CAPACITOR	0.1uF 50V J	
C6317	QFVF1HJ-104Z	MF CAPACITOR	0.1uF 50V J	
C6318	QFVF1HJ-104Z	MF CAPACITOR	0.1uF 50V J	
C6319	QFVF1HJ-104Z	MF CAPACITOR	0.1uF 50V J	
C6320	QETN1HM-106Z	E CAPACITOR	10uF 50V M	
C6321	QETN1HM-106Z	E CAPACITOR	10uF 50V M	
C7301	QETN1CM-107Z	E CAPACITOR	100uF 16V M	
C7302	QETN1HM-474Z	E CAPACITOR	0.47uF 50V M	
C7303	QCSB1HK-3R3Y	C CAPACITOR	3.3pF 50V K	
C7305	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M	
C7306	QFVF1HJ-274Z	MF CAPACITOR	0.27uF 50V J	
C7307	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M	
C7308	QFLC1HJ-103Z	M CAPACITOR	0.01uF 50V J	
C7309	QETN1CM-107Z	E CAPACITOR	100uF 16V M	
C7310	QFLC1HJ-153Z	M CAPACITOR	0.015uF 50V J	
C7311	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M	
C7312	QETN1HM-105Z	E CAPACITOR	1uF 50V M	
C7313	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M	
C7314	QETN1CM-107Z	E CAPACITOR	100uF 16V M	
C7316	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M	
C7317	QFVF1HJ-104Z	MF CAPACITOR	0.1uF 50V J	
C7318	QETN1CM-107Z	E CAPACITOR	100uF 16V M	
C7319	QFVF1HJ-104Z	MF CAPACITOR	0.1uF 50V J	
C7320	QFLC1HJ-393Z	M CAPACITOR	0.039uF 50V J	
C7321	QFVF1HJ-154Z	MF CAPACITOR	0.15uF 50V J	
C7322	QER61HM-105Z	E CAPACITOR	1uF 50V M	
C7323	QETN1HM-106Z	E CAPACITOR	10uF 50V M	
C7324	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M	
C8101	QFLC1HJ-563Z	M CAPACITOR	0.056uF 50V J	
C8102	QFLC1HJ-563Z	M CAPACITOR	0.056uF 50V J	
C8103	QETN1EM-476Z	E CAPACITOR	47uF 25V M	

⚠ Symbol No.	Part No.	Part Name	Description	Local
C8201	QFLC1HJ-563Z	M CAPACITOR	0.056uF 50V J	
C8202	QFLC1HJ-563Z	M CAPACITOR	0.056uF 50V J	
C8203	QETN1EM-476Z	E CAPACITOR	47uF 25V M	
C8301	QETN1EM-476Z	E CAPACITOR	47uF 25V M	
C8303	QETN1HM-105Z	E CAPACITOR	1uF 50V M	
C8322	QETN1EM-476Z	E CAPACITOR	47uF 25V M	
R1901	QRE141J-103Y	C RESISTOR	10kΩ 1/4W J	
R3191	QRE141J-1R5Y	C RESISTOR	1.5Ω 1/4W J	
R3192	QRE141J-152Y	C RESISTOR	1.5kΩ 1/4W J	
R3193	QRE141J-104Y	C RESISTOR	100kΩ 1/4W J	
R3194	QRE141J-103Y	C RESISTOR	10kΩ 1/4W J	
R3195	QRE141J-222Y	C RESISTOR	2.2kΩ 1/4W J	
R3196	QRE141J-103Y	C RESISTOR	10kΩ 1/4W J	
R3197	QAD0015-153Z	THERMISTOR	15kΩ	
R3198	QRE141J-472Y	C RESISTOR	4.7kΩ 1/4W J	
R3199	QRE141J-473Y	C RESISTOR	47kΩ 1/4W J	
R3200	QRE141J-123Y	C RESISTOR	12kΩ 1/4W J	
R3201	QRE141J-152Y	C RESISTOR	1.5kΩ 1/4W J	
R3202	QRE141J-152Y	C RESISTOR	1.5kΩ 1/4W J	
R3203	QRE141J-103Y	C RESISTOR	10kΩ 1/4W J	
R3204	QRE141J-222Y	C RESISTOR	2.2kΩ 1/4W J	
R3301	QRE141J-471Y	C RESISTOR	470Ω 1/4W J	
R3302	QRE141J-1R0Y	C RESISTOR	1Ω 1/4W J	
R3303	QRE141J-1R0Y	C RESISTOR	1Ω 1/4W J	
R3304	QRE141J-1R0Y	C RESISTOR	1Ω 1/4W J	
R3305	QRE141J-222Y	C RESISTOR	2.2kΩ 1/4W J	
R3306	QRE141J-682Y	C RESISTOR	6.8kΩ 1/4W J	
R3307	QRE141J-102Y	C RESISTOR	1kΩ 1/4W J	
R3308	QRE141J-222Y	C RESISTOR	2.2kΩ 1/4W J	
R3309	QRE141J-681Y	C RESISTOR	680Ω 1/4W J	
R3310	QRE141J-681Y	C RESISTOR	680Ω 1/4W J	
R3311	QRE141J-681Y	C RESISTOR	680Ω 1/4W J	
R3312	QRE141J-472Y	C RESISTOR	4.7kΩ 1/4W J	
R3313	QRE141J-471Y	C RESISTOR	470Ω 1/4W J	
R3314	QRE141J-332Y	C RESISTOR	3.3kΩ 1/4W J	
R3315	QRE141J-472Y	C RESISTOR	4.7kΩ 1/4W J	
R3316	QRE141J-472Y	C RESISTOR	4.7kΩ 1/4W J	
R3491	QRE141J-471Y	C RESISTOR	470Ω 1/4W J	
R3492	QRE141J-1R0Y	C RESISTOR	1Ω 1/4W J	
R3493	QRE141J-1R0Y	C RESISTOR	1Ω 1/4W J	
R3494	QRE141J-1R0Y	C RESISTOR	1Ω 1/4W J	
R3495	QRE141J-222Y	C RESISTOR	2.2kΩ 1/4W J	
R3496	QRE141J-682Y	C RESISTOR	6.8kΩ 1/4W J	
R3497	QRE141J-102Y	C RESISTOR	1kΩ 1/4W J	
R3498	QRE141J-222Y	C RESISTOR	2.2kΩ 1/4W J	
R3499	QRE141J-681Y	C RESISTOR	680Ω 1/4W J	
R3500	QRE141J-681Y	C RESISTOR	680Ω 1/4W J	
R3501	QRE141J-681Y	C RESISTOR	680Ω 1/4W J	
R3502	QRE141J-472Y	C RESISTOR	4.7kΩ 1/4W J	
R3503	QRE141J-471Y	C RESISTOR	470Ω 1/4W J	
R3504	QRE141J-332Y	C RESISTOR	3.3kΩ 1/4W J	
R3505	QRE141J-472Y	C RESISTOR	4.7kΩ 1/4W J	
R3506	QRE141J-472Y	C RESISTOR	4.7kΩ 1/4W J	
R3507	QRE141J-332Y	C RESISTOR	3.3kΩ 1/4W J	
R3508	QRE141J-682Y	C RESISTOR	6.8kΩ 1/4W J	
R3901	QRE141J-5R6	C RESISTOR	5.6Ω 1/4W J	
R5107	QRE141J-104Y	C RESISTOR	100kΩ 1/4W J	
R5207	QRE141J-104Y	C RESISTOR	100kΩ 1/4W J	
R6101	QRE141J-273Y	C RESISTOR	27kΩ 1/4W J	
R6102	QRE141J-121Y	C RESISTOR	120Ω 1/4W J	
R6103	QRE141J-123Y	C RESISTOR	12kΩ 1/4W J	
R6104	QRE141J-2R2Y	C RESISTOR	2.2Ω 1/4W J	
R6105	QRE141J-472Y	C RESISTOR	4.7kΩ 1/4W J	
R6201	QRE141J-273Y	C RESISTOR	27kΩ 1/4W J	
R6202	QRE141J-121Y	C RESISTOR	120Ω 1/4W J	
R6203	QRE141J-123Y	C RESISTOR	12kΩ 1/4W J	
R6204	QRE141J-2R2Y	C RESISTOR	2.2Ω 1/4W J	
R6205	QRE141J-472Y	C RESISTOR	4.7kΩ 1/4W J	
R6301	QRE141J-332Y	C RESISTOR	3.3kΩ 1/4W J	
R6302	QRE141J-222Y	C RESISTOR	2.2kΩ 1/4W J	
R6303	QRE141J-562Y	C RESISTOR	5.6kΩ 1/4W J	
R6304	QRE141J-104Y	C RESISTOR	100kΩ 1/4W J	
R6305	QRE141J-622Y	C RESISTOR	6.2kΩ 1/4W J	
R6306	QRE141J-182Y	C RESISTOR	1.8kΩ 1/4W J	
R6307	QRE141J-153Y	C RESISTOR	15kΩ 1/4W J	
R6308	QRE141J-153Y	C RESISTOR	15kΩ 1/4W J	
R6309	QRE141J-472Y	C RESISTOR	4.7kΩ 1/4W J	
R6310	QRE141J-102Y	C RESISTOR	1kΩ 1/4W J	
R6311	QRE141J-102Y	C RESISTOR	1kΩ 1/4W J	
R6312	QRE141J-102Y	C RESISTOR	1kΩ 1/4W J	
R6313	QRE141J-102Y	C RESISTOR	1kΩ 1/4W J	
R6314	QRE141J-391Y	C RESISTOR	390Ω 1/4W J	
R6315	QRE141J-224Y	C RESISTOR	220kΩ 1/4W J	
R6316	QRE141J-391Y	C RESISTOR	390Ω 1/4W J	
R6317	QRE141J-473Y	C RESISTOR	47kΩ 1/4W J	
R6318	QRE141J-2R2Y	C RESISTOR	2.2Ω 1/4W J	
R6319	QRE141J-2R2Y	C RESISTOR	2.2Ω 1/4W J	
R6320	QRE141J-2R2Y	C RESISTOR	2.2Ω 1/4W J	
R6321	QRE141J-2R2Y	C RESISTOR	2.2Ω 1/4W J	
R6322	QRE141J-123Y	C RESISTOR	12kΩ 1/4W J	
R6325	QRE141J-153Y	C RESISTOR	15kΩ 1/4W J	
R7301	QRE141J-473Y	C RESISTOR	47kΩ 1/4W J	
R7303	QRE141J-101Y	C RESISTOR	100Ω 1/4W J	
R7305	QRE141J-224Y	C RESISTOR	220kΩ 1/4W J	
R7307	QRE141J-394Y	C RESISTOR	390kΩ 1/4W J	
R7308	QRE141J-104Y	C RESISTOR	100kΩ 1/4W J	
R7309	QRE141J-333Y	C RESISTOR	33kΩ 1/4W J	
R7310	QRE141J-101Y	C RESISTOR	100Ω 1/4W J	
R7311	QRE141J-184Y	C RESISTOR	180kΩ 1/4W J	
R7312	QRE141J-104Y	C RESISTOR	100kΩ 1/4W J	
R7313	QRE141J-104Y	C RESISTOR	100kΩ 1/4W J	
R7314	QRE141J-273Y	C RESISTOR	27kΩ 1/4W J	
R7316	QRE141J-104Y	C RESISTOR	100kΩ 1/4W J	
R7317	QRE141J-104Y	C RESISTOR	100kΩ 1/4W J	
R7318	QRE141J-101Y	C RESISTOR	100Ω 1/4W J	
R7319	QRE141J-202Y	C RESISTOR	2kΩ 1/4W J	
R7320	QRE141J-221Y	C RESISTOR	220Ω 1/4W J	
R7321	QRE141J-224Y	C RESISTOR	220kΩ 1/4W J	
R7322	QRE141J-563Y	C RESISTOR	56kΩ 1/4W J	
R7323	QRE141J-102Y	C RESISTOR	1kΩ 1/4W J	
R7324	QRE141J-103Y	C RESISTOR	10kΩ 1/4W J	
R7325	QRE141J-103Y	C RESISTOR	10kΩ 1/4W J	
R7326	QRE141J-153Y	C RESISTOR	15kΩ 1/4W J	
R7327	QRE141J-105Y	C RESISTOR	1MΩ 1/4W J	
R7328	QRE141J-332Y	C RESISTOR	3.3kΩ 1/4W J	
R7329	QRE141J-102Y	C RESISTOR	1kΩ 1/4W J	
R7330	QRE141J-392Y	C RESISTOR	3.9kΩ 1/4W J	
R7331	QRE141J-222Y	C RESISTOR	2.2kΩ 1/4W J	
R7332	QRE141J-101Y	C RESISTOR	100Ω 1/4W J	
R7333	QRE141J-273Y	C RESISTOR	27kΩ 1/4W J	
R7334	QRE141J-243Y	C RESISTOR	24kΩ 1/4W J	
R7336	QRE141J-243Y	C RESISTOR	24kΩ 1/4W J	
R7338	QRE141J-823Y	C RESISTOR	82kΩ 1/4W J	
R7339	QRE141J-222Y	C RESISTOR	2.2kΩ 1/4W J	
R7341	QRE141J-473Y	C RESISTOR	47kΩ 1/4W J	
R7342	QRE141J-333Y	C RESISTOR	33kΩ 1/4W J	
R7343	QRE141J-103Y	C RESISTOR	10kΩ 1/4W J	
R7344	QRE141J-104Y	C RESISTOR	100kΩ 1/4W J	
R8101	QRE141J-332Y	C RESISTOR	3.3kΩ 1/4W J	
R8102	QRE141J-272Y	C RESISTOR	2.7kΩ 1/4W J	
R8103	QRE141J-392Y	C RESISTOR	3.9kΩ 1/4W J	
R8104	QRE141J-104Y	C RESISTOR	100kΩ 1/4W J	
R8105	QRE141J-332Y	C RESISTOR	3.3kΩ 1/4W J	
R8107	QRE141J-103Y	C RESISTOR	10kΩ 1/4W J	
R8111	QRE141J-473Y	C RESISTOR	47kΩ 1/4W J	
R8201	QRE141J-332Y	C RESISTOR	3.3kΩ 1/4W J	
R8202	QRE141J-272Y	C RESISTOR	2.7kΩ 1/4W J	
R8203	QRE141J-392Y	C RESISTOR	3.9kΩ 1/4W J	
R8204	QRE141J-104Y	C RESISTOR	100kΩ 1/4W J	
R8205	QRE141J-332Y	C RESISTOR	3.3kΩ 1/4W J	
R8207	QRE141J-103Y	C RESISTOR	10kΩ 1/4W J	
R8211	QRE141J-473Y	C RESISTOR	47kΩ 1/4W J	
R8301	QRE141J-102Y	C RESISTOR	1kΩ 1/4W J	
R8302	QRE141J-474Y	C RESISTOR	470kΩ 1/4W J	
R8321	QRE141J-101Y	C RESISTOR	100Ω 1/4W J	
R8327	QRE141J-224Y	C RESISTOR	220kΩ 1/4W J	
L3191	QQL28AK-101	CHOKE COIL	100uH K	
BS1	VYH5483-001	SPRING		
BS2	VYH7199-001	BATT.SPRING		
CN191	QGA2501C1-09	CONNECTOR	W-B (1-9)	
CN192	QGB2501K1-04	CONNECTOR	B-B (1-4)	
CN193	QGA2501C1-05	CONNECTOR	W-B (1-5)	
CN194	QGA7901C1-02	CONNECTOR	W-B (1-2)	

⚠ Symbol No.	Part No.	Part Name	Description	Local
CN195	QGA3901C1-02	CONNECTOR	W-B (1-2)	
CN601	QGF1205F1-13	CONNECTOR	FFC/FPC (1-13)	
CN602	QGF1205F1-13	CONNECTOR	FFC/FPC (1-13)	
CN603	QGB1214K1-10S	CONNECTOR	B-B (1-10)	
CN604	QGB1214J1-10S	CONNECTOR	B-B (1-10)	
FW601	WJK0002-001A	E-SI C WIRE C-B		
FW602	WJK0004-001A	E-SI C WIRE C-B		
FW603	WJK0003-001A	001A C WIRE C-B		
⚠ J1901	QNC0043-001	AC SOCKET		
J1902	QNA0016-001	DC JACK		
WC1	QZW0007-001	POST PIN		
⚠ Z1901	QNG0020-001Z	FUSE CLIP		
⚠ Z1902	QNG0020-001Z	FUSE CLIP		
⚠ Z1903	QNG0020-001Z	FUSE CLIP		
⚠ Z1904	QNG0020-001Z	FUSE CLIP		
⚠ Z1911	QNG0020-001Z	FUSE CLIP		
⚠ Z1922	QNG0020-001Z	FUSE CLIP		
⚠ Z1933	QNG0020-001Z	FUSE CLIP		
⚠ Z1944	QNG0020-001Z	FUSE CLIP		

Micon board

Block No. [0][2]

⚠ Symbol No.	Part No.	Part Name	Description	Local
IC401	NJM4565M-WE	IC		
IC501	BH3852S	IC		
IC551	PQ033ES3MX-T	IC		
IC603	NJM4565M-WE	IC		
IC751	NJM4565M-WE	IC		
IC752	NJM4565M-WE	IC		
IC831	NJM4565M-WE	IC		
IC901	MN101C49GNH	IC(MCU)MASK		
IC902	PST9131N-X	IC		
IC903	GP1UM281XKVF	IR DETECT UNIT		
IC904	BR24L02F-W-X	IC		
Q2501	KRA108S-X	TRANSISTOR		
Q2502	2SD601A/R/-X	TRANSISTOR		
Q2503	2SD601A/R/-X	TRANSISTOR		
Q2504	KRC114S-X	TRANSISTOR		
Q2505	KRA110S-X	TRANSISTOR		
⚠ Q3361	2SB709A/QR/-X	TRANSISTOR		
Q3362	2SD601A/R/-X	TRANSISTOR		
Q3571	2SB624/4/-X	TRANSISTOR		
Q3572	2SD601A/R/-X	TRANSISTOR		
Q3671	2SB624/4/-X	TRANSISTOR		
Q3672	KRC114S-X	TRANSISTOR		
Q3791	2SD601A/R/-X	TRANSISTOR		
Q4101	2SD596/4/-X	TRANSISTOR		
Q4101 or	2SD2114K/VW/-X	TRANSISTOR		
Q4102	2SD596/4/-X	TRANSISTOR		
Q4102 or	2SD2114K/VW/-X	TRANSISTOR		
Q4201	2SD596/4/-X	TRANSISTOR		
Q4201 or	2SD2114K/VW/-X	TRANSISTOR		
Q4202	2SD596/4/-X	TRANSISTOR		
Q4202 or	2SD2114K/VW/-X	TRANSISTOR		
Q4301	2SD601A/R/-X	TRANSISTOR		
Q5101	2SK301/R/-T	JUNCTION FET		
Q5201	2SK301/R/-T	JUNCTION FET		
Q6150	2SD596/4/-X	TRANSISTOR		
Q6150 or	2SD2114K/VW/-X	TRANSISTOR		
Q6151	2SD596/4/-X	TRANSISTOR		
Q6250	2SD596/4/-X	TRANSISTOR		
Q6250 or	2SD2114K/VW/-X	TRANSISTOR		
Q6251	2SD596/4/-X	TRANSISTOR		
Q6350	UN2211-X	TRANSISTOR		
Q6351	UN2111-X	TRANSISTOR		
Q6401	UN2211-X	TRANSISTOR		
Q7351	2SD601A/R/-X	TRANSISTOR		
Q7352	2SD601A/R/-X	TRANSISTOR		
Q7353	UN2112-X	DIGI TRANSISTOR		
Q7354	2SD601A/R/-X	TRANSISTOR		
Q7355	UN2112-X	DIGI TRANSISTOR		
Q7356	2SD601A/R/-X	TRANSISTOR		
Q7357	2SD601A/R/-X	TRANSISTOR		
Q7358	2SD601A/R/-X	TRANSISTOR		
Q7359	2SB709A/QR/-X	TRANSISTOR		
Q7360	DTC115EKA-X	DIGI TRANSISTOR		
Q8351	2SB709A/QR/-X	TRANSISTOR		
Q8352	2SB709A/QR/-X	TRANSISTOR		
Q8353	2SD601A/R/-X	TRANSISTOR		
Q8354	UN2211-X	TRANSISTOR		
Q9001	KTC3195/O/-T	TRANSISTOR		
Q9002	KTC3195/O/-T	TRANSISTOR		
Q9003	2SB709A/R/-X	TRANSISTOR		
Q9004	2SD601A/R/-X	TRANSISTOR		
Q9005	2SD601A/R/-X	TRANSISTOR		
Q9006	2SD601A/R/-X	TRANSISTOR		
D2502	SLR-342VR-T15	LED I M		
D2503	SLR-342VR-T15	LED I M		
D2504	SLR-342MG-T15	LED I M		
D3361	1SS133-T2	SI DIODE		
D3362	MTZJ3.9B-T2	Z DIODE		
D3363	1SS133-T2	SI DIODE		
D3571	SELU1E54CM-P	LED		
D3572	SELU1E54CM-P	LED		
D3791	MTZJ6.2A-T2	Z DIODE		
D4301	1SS133-T2	SI DIODE		
D4302	1SS133-T2	SI DIODE		
D5501	1SS133-T2	SI DIODE		
D6303	1SS133-T2	SI DIODE		
D6501	MTZJ4.7A-T2	Z DIODE		
D6502	MTZJ3.6A-T2	ZENER DIODE		
D6503	1SS133-T2	SI DIODE		
D7351	1SS133-T2	SI DIODE		
D7352	1SS133-T2	SI DIODE		
D7353	1SS133-T2	SI DIODE		
D7354	1SS133-T2	SI DIODE		
D7355	1SS133-T2	SI DIODE		
D7357	1SS133-T2	SI DIODE		
D7358	1SS133-T2	SI DIODE		
D7359	1SS133-T2	SI DIODE		
D7360	1SS133-T2	SI DIODE		
D8351	1SS133-T2	SI DIODE		
D8352	1SS133-T2	SI DIODE		
D8353	1SS133-T2	SI DIODE		
D8354	1SS133-T2	SI DIODE		
D9007	1N4003S-T5	SI DIODE		
D9011	MTZJ5.1C-T2	Z DIODE		
D9012	MA700A-T2	SB DIODE		
D9013	1SS133-T2	SI DIODE		
D9126	1SS133-T2	SI DIODE		
C2501	QER61HM-105Z	E CAPACITOR	1uF 50V M	
C2502	QER61CM-476Z	E CAPACITOR	47uF 16V M	
C2503	NCB31CK-333X	C CAPACITOR	0.033uF 16V K	
C2521	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C2522	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C2523	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C2524	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C3361	QEKC1AM-107Z	E CAPACITOR	100uF 10V M	
C3362	QEKC1EM-475Z	E CAPACITOR	4.7uF 25V M	
C3571	QEKC1CM-476Z	E CAPACITOR	47uF 16V M	
C3791	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C4142	NCS31HJ-150X	C CAPACITOR	15pF 50V J	
C4143	QEKC1EM-475Z	E CAPACITOR	4.7uF 25V M	
C4144	QEKC1EM-475Z	E CAPACITOR	4.7uF 25V M	
C4145	QTE1V06-106Z	E CAPACITOR	10uF 35V	
C4151	NCS31HJ-681X	C CAPACITOR	680pF 50V J	
C4242	NCS31HJ-150X	C CAPACITOR	15pF 50V J	
C4243	QEKC1EM-475Z	E CAPACITOR	4.7uF 25V M	
C4244	QEKC1EM-475Z	E CAPACITOR	4.7uF 25V M	
C4245	QTE1V06-106Z	E CAPACITOR	10uF 35V	
C4251	NCS31HJ-681X	C CAPACITOR	680pF 50V J	
C4341	QEKC1CM-476Z	E CAPACITOR	47uF 16V M	
C4342	QEKC1CM-107Z	E CAPACITOR	100uF 16V M	
C4343	NCS31HJ-151X	C CAPACITOR	150pF 50V J	
C4344	QEKC1HM-226Z	E CAPACITOR	22uF 50V M	
C4351	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C5101	QFLC1HJ-152Z	M CAPACITOR	1500pF 50V J	

⚠ Symbol No.	Part No.	Part Name	Description	Local
C5102	QER61EM-475Z	E CAPACITOR	4.7uF 25V M	
C5103	QER61EM-106Z	E CAPACITOR	10uF 25V M	
C5104	QFLC1HJ-563Z	M CAPACITOR	0.056uF 50V J	
C5105	QFLC1HJ-563Z	M CAPACITOR	0.056uF 50V J	
C5106	QFLC1HJ-562Z	M CAPACITOR	5600pF 50V J	
C5201	QFLC1HJ-152Z	M CAPACITOR	1500pF 50V J	
C5202	QER61EM-475Z	E CAPACITOR	4.7uF 25V M	
C5203	QER61EM-106Z	E CAPACITOR	10uF 25V M	
C5204	QFLC1HJ-563Z	M CAPACITOR	0.056uF 50V J	
C5205	QFLC1HJ-563Z	M CAPACITOR	0.056uF 50V J	
C5206	QFLC1HJ-562Z	M CAPACITOR	5600pF 50V J	
C5301	QEKC1HM-106Z	E CAPACITOR	10uF 50V M	
C5302	QER61HM-105Z	E CAPACITOR	1uF 50V M	
C5303	QER61HM-225Z	E CAPACITOR	2.2uF 50V M	
C5304	QER61HM-105Z	E CAPACITOR	1uF 50V M	
C5305	QEKC1CM-107Z	E CAPACITOR	100uF 16V M	
C5306	QEKC1EM-475Z	E CAPACITOR	4.7uF 25V M	
C5307	QFLC1HJ-473Z	M CAPACITOR	0.047uF 50V J	
C5309	QEKC1HM-474Z	E CAPACITOR	0.47uF 50V M	
C5501	QER61AM-107Z	E CAPACITOR	100uF 10V M	
C5502	QEKC1EM-476Z	E CAPACITOR	47uF 25V M	
C5503	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C6150	QER61HM-105Z	E CAPACITOR	1uF 50V M	
C6151	NCS31HJ-151X	C CAPACITOR	150pF 50V J	
C6152	NCS31HJ-151X	C CAPACITOR	150pF 50V J	
C6153	QER61AM-107Z	E CAPACITOR	100uF 10V M	
C6250	QER61HM-105Z	E CAPACITOR	1uF 50V M	
C6251	NCS31HJ-151X	C CAPACITOR	150pF 50V J	
C6252	NCS31HJ-151X	C CAPACITOR	150pF 50V J	
C6253	QER61AM-107Z	E CAPACITOR	100uF 10V M	
C6350	QEKC1CM-107Z	E CAPACITOR	100uF 16V M	
C6351	QEKC1CM-476Z	E CAPACITOR	47uF 16V M	
C6352	QEKC1CM-226Z	E CAPACITOR	22uF 16V M	
C7351	QETN1HM-104Z	E CAPACITOR	0.1uF 50V M	
C7352	NCS31HJ-331X	C CAPACITOR	330pF 50V J	
C7353	QETN1HM-334Z	E CAPACITOR	0.33uF 50V M	
C7354	QETN1HM-105Z	E CAPACITOR	1uF 50V M	
C7355	QETN1HM-105Z	E CAPACITOR	1uF 50V M	
C7356	QETN1EM-476Z	E CAPACITOR	47uF 25V M	
C7357	NCS31HJ-680X	C CAPACITOR	68pF 50V J	
C7358	QETN1CM-106Z	E CAPACITOR	10uF 16V M	
C7359	QFLC1HJ-683Z	M CAPACITOR	0.068uF 50V J	
C7360	QETN1EM-476Z	E CAPACITOR	47uF 25V M	
C7361	NCS31HJ-221X	C CAPACITOR	220pF 50V J	
C7362	QETN1HM-335Z	E CAPACITOR	3.3uF 50V M	
C7363	QETN1HM-335Z	E CAPACITOR	3.3uF 50V M	
C7365	QETN1HM-105Z	E CAPACITOR	1uF 50V M	
C7366	QETN1EM-476Z	E CAPACITOR	47uF 25V M	
C7367	QETN1HM-105Z	E CAPACITOR	1uF 50V M	
C7368	QETN1HM-105Z	E CAPACITOR	1uF 50V M	
C7370	QETN1HM-104Z	E CAPACITOR	0.1uF 50V M	
C8351	NCS31HJ-680X	C CAPACITOR	68pF 50V J	
C8352	NCS31HJ-221X	C CAPACITOR	220pF 50V J	
C8353	NCS31HJ-221X	C CAPACITOR	220pF 50V J	
C8354	NCS31HJ-330X	C CAPACITOR	33pF 50V J	
C8355	QFVF1HJ-124Z	MF CAPACITOR	0.12uF 50V J	
C8356	QEKC1AM-107Z	E CAPACITOR	100uF 10V M	
C8357	NCS31HJ-101X	C CAPACITOR	100pF 50V J	
C8358	QEKC1HM-226Z	E CAPACITOR	22uF 50V M	
C8359	QEKC1HM-106Z	E CAPACITOR	10uF 50V M	
C8360	NCB31HK-272X	C CAPACITOR	2700pF 50V K	
C8361	QFVF1HJ-104Z	MF CAPACITOR	0.1uF 50V J	
C8362	NCB21HK-473X	C CAPACITOR	0.047uF 50V K	
C8363	NCS31HJ-101X	C CAPACITOR	100pF 50V J	
C9001	QER61AM-107Z	E CAPACITOR	100uF 10V M	
C9002	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C9003	NCB31HK-102X	C CAPACITOR	1000pF 50V K	
C9004	NCB31HK-102X	C CAPACITOR	1000pF 50V K	
C9005	NCS31HJ-390X	C CAPACITOR	39pF 50V J	
C9006	NCS31HJ-390X	C CAPACITOR	39pF 50V J	
C9007	NCS31HJ-330X	C CAPACITOR	33pF 50V J	
C9008	NCS31HJ-330X	C CAPACITOR	33pF 50V J	
C9009	NCS31HJ-220X	C CAPACITOR	22pF 50V J	
C9010	NCS31HJ-220X	C CAPACITOR	22pF 50V J	
C9011	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C9012	QER61HM-226Z	E CAPACITOR	22uF 50V M	
C9104	NCB31HK-102X	C CAPACITOR	1000pF 50V K	
C9110	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	

⚠ Symbol No.	Part No.	Part Name	Description	Local
C9126	NCS31HJ-151X	C CAPACITOR	150pF 50V J	
C9133	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C9134	NCS31HJ-151X	C CAPACITOR	150pF 50V J	
C9136	QER61HM-106Z	E CAPACITOR	10uF 50V M	
C9137	QER61HM-106Z	E CAPACITOR	10uF 50V M	
C9138	QER61HM-106Z	E CAPACITOR	10uF 50V M	
C9142	NCS31HJ-151X	C CAPACITOR	150pF 50V J	
C9145	NCS31HJ-101X	C CAPACITOR	100pF 50V J	
C9146	NCS31HJ-101X	C CAPACITOR	100pF 50V J	
C9147	NCS31HJ-101X	C CAPACITOR	100pF 50V J	
C9148	NCS31HJ-470X	C CAPACITOR	47pF 50V J	
C9149	NCS31HJ-470X	C CAPACITOR	47pF 50V J	
C9150	NCB21CK-105X	C CAPACITOR	1uF 16V K	
C9151	NCB21CK-105X	C CAPACITOR	1uF 16V K	
C9178	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C9180	NCS31HJ-151X	C CAPACITOR	150pF 50V J	
C9181	NCS31HJ-151X	C CAPACITOR	150pF 50V J	
C9182	NCS31HJ-680X	C CAPACITOR	68pF 50V J	
C9187	NCS31HJ-151X	C CAPACITOR	150pF 50V J	
C9188	NCS31HJ-680X	C CAPACITOR	68pF 50V J	
C9189	NCS31HJ-151X	C CAPACITOR	150pF 50V J	
C9190	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C9196	NCS31HJ-151X	C CAPACITOR	150pF 50V J	
C9197	NCS31HJ-151X	C CAPACITOR	150pF 50V J	
C9198	NCS31HJ-151X	C CAPACITOR	150pF 50V J	
C9247	NCS31HJ-151X	C CAPACITOR	150pF 50V J	
R2501	NRS181J-271X	MG RESISTOR	270Ω 1/8W J	
R2504	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R2505	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R2506	NRSA63J-121X	MG RESISTOR	120Ω 1/16W J	
R2507	NRSA63J-151X	MG RESISTOR	150Ω 1/16W J	
R2508	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
R2509	NRSA63J-271X	MG RESISTOR	270Ω 1/16W J	
R2510	NRSA63J-391X	MG RESISTOR	390Ω 1/16W J	
R2511	NRSA63J-561X	MG RESISTOR	560Ω 1/16W J	
R2512	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R2513	NRSA63J-182X	MG RESISTOR	1.8kΩ 1/16W J	
R2514	NRS181J-391X	MG RESISTOR	390Ω 1/8W J	
R2515	NRS181J-471X	MG RESISTOR	470Ω 1/8W J	
R2516	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R2517	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R2518	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R2519	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R2520	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R2521	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R3361	QRE141J-390Y	C RESISTOR	39Ω 1/4W J	
R3362	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R3363	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R3571	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R3572	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R3573	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R3574	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R3575	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R3576	QRE141J-331Y	C RESISTOR	330Ω 1/4W J	
R3577	QRE141J-331Y	C RESISTOR	330Ω 1/4W J	
R3671	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R3672	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R3791	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J	
R3792	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R3793	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R3794	NRSA63J-224X	MG RESISTOR	220kΩ 1/16W J	
R4141	NRSA63J-124X	MG RESISTOR	120kΩ 1/16W J	
R4142	NRSA63J-303X	MG RESISTOR	30kΩ 1/16W J	
R4143	NRSA63J-224X	MG RESISTOR	220kΩ 1/16W J	
R4144	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R4145	NRSA63J-124X	MG RESISTOR	120kΩ 1/16W J	
R4149	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R4150	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R4151	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R4153	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R4155	NRSA63J-183X	MG RESISTOR	18kΩ 1/16W J	
R4158	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	
R4159	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R4160	NRSA63J-821X	MG RESISTOR	820Ω 1/16W J	
R4161	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J	
R4241	NRSA63J-124X	MG RESISTOR	120kΩ 1/16W J	
R4242	NRSA63J-303X	MG RESISTOR	30kΩ 1/16W J	

⚠ Symbol No.	Part No.	Part Name	Description	Local
R4243	NRSA63J-224X	MG RESISTOR	220kΩ 1/16W J	
R4244	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R4245	NRSA63J-124X	MG RESISTOR	120kΩ 1/16W J	
R4249	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R4250	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R4251	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R4253	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R4255	NRSA63J-183X	MG RESISTOR	18kΩ 1/16W J	
R4258	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	
R4259	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R4260	NRSA63J-821X	MG RESISTOR	820Ω 1/16W J	
R4261	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J	
R4301	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R4341	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R4342	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R4343	QRE141J-101Y	C RESISTOR	100Ω 1/4W J	
R4351	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R4352	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R4353	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R5101	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
R5102	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J	
R5104	NRSA63J-224X	MG RESISTOR	220kΩ 1/16W J	
R5201	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
R5202	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J	
R5204	NRSA63J-224X	MG RESISTOR	220kΩ 1/16W J	
R5301	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R5302	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J	
R5303	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R5304	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R5305	QRE141J-101Y	C RESISTOR	100Ω 1/4W J	
R5306	NRSA63J-475X	MG RESISTOR	4.7MΩ 1/16W J	
R5307	NRSA63J-475X	MG RESISTOR	4.7MΩ 1/16W J	
R5308	NRSA63J-154X	MG RESISTOR	150kΩ 1/16W J	
R5501	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J	
R5502	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R6150	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
R6151	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
R6152	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R6153	NRSA63J-220X	MG RESISTOR	22Ω 1/16W J	
R6154	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R6155	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R6157	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R6158	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J	
R6160	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R6161	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R6250	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
R6251	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
R6252	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R6253	NRSA63J-220X	MG RESISTOR	22Ω 1/16W J	
R6254	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R6255	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R6257	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R6258	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J	
R6260	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R6261	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R6335	QRE141J-121Y	C RESISTOR	120Ω 1/4W J	
R6350	QRE141J-121Y	C RESISTOR	120Ω 1/4W J	
R6351	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R6353	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R6354	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R6401	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J	
R7351	NRSA63J-184X	MG RESISTOR	180kΩ 1/16W J	
R7352	NRSA63J-823X	MG RESISTOR	82kΩ 1/16W J	
R7353	NRSA63J-393X	MG RESISTOR	39kΩ 1/16W J	
R7354	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J	
R7355	NRSA63J-563X	MG RESISTOR	56kΩ 1/16W J	
R7356	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R7357	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R7358	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R7359	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
R7360	NRSA63J-273X	MG RESISTOR	27kΩ 1/16W J	
R7361	QRE141J-101Y	C RESISTOR	100Ω 1/4W J	
R7362	NRSA63J-224X	MG RESISTOR	220kΩ 1/16W J	
R7365	NRSA63J-122X	MG RESISTOR	1.2kΩ 1/16W J	
R7366	NRSA63J-182X	MG RESISTOR	1.8kΩ 1/16W J	
R7367	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R7368	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R7369	NRSA63J-683X	MG RESISTOR	68kΩ 1/16W J	
R7370	NRSA63J-683X	MG RESISTOR	68kΩ 1/16W J	
R7371	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R7372	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R7373	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R7374	NRSA63J-474X	MG RESISTOR	470kΩ 1/16W J	
R7375	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R7376	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R7377	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R7378	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R7379	NRSA63J-563X	MG RESISTOR	56kΩ 1/16W J	
R7380	NRSA63J-393X	MG RESISTOR	39kΩ 1/16W J	
R7381	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R7382	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R7383	QRE141J-101Y	C RESISTOR	100Ω 1/4W J	
R7384	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R7385	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R7386	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J	
R7387	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R7388	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R8351	NRSA63J-683X	MG RESISTOR	68kΩ 1/16W J	
R8352	NRSA63J-474X	MG RESISTOR	470kΩ 1/16W J	
R8353	NRSA63J-124X	MG RESISTOR	120kΩ 1/16W J	
R8354	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R8355	NRSA63J-474X	MG RESISTOR	470kΩ 1/16W J	
R8356	NRSA63J-124X	MG RESISTOR	120kΩ 1/16W J	
R8357	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R8358	NRSA63J-475X	MG RESISTOR	4.7MΩ 1/16W J	
R8359	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R8360	NRSA63J-822X	MG RESISTOR	8.2kΩ 1/16W J	
R8361	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R8362	NRSA63J-822X	MG RESISTOR	8.2kΩ 1/16W J	
R8363	QRE141J-101Y	C RESISTOR	100Ω 1/4W J	
R8364	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R8365	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R8366	NRSA63J-224X	MG RESISTOR	220kΩ 1/16W J	
R8367	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
R8368	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R8369	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R8370	NRSA02J-275X	MG RESISTOR	2.7MΩ 1/10W J	
R8371	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R8372	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R9001	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R9002	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R9003	NRSA63J-822X	MG RESISTOR	8.2kΩ 1/16W J	
R9004	NRSA63J-822X	MG RESISTOR	8.2kΩ 1/16W J	
R9011	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R9012	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J	
R9013	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R9014	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R9015	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R9016	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R9017	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R9018	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R9102	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R9103	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R9104	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R9105	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R9107	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R9108	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R9115	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R9116	NRSA63J-224X	MG RESISTOR	220kΩ 1/16W J	
R9118	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R9119	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R9120	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R9124	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R9125	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R9126	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R9129	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R9130	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R9131	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R9133	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R9134	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R9135	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R9136	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J	
R9137	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R9138	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R9139	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R9140	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	

⚠ Symbol No.	Part No.	Part Name	Description	Local
R9142	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R9145	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R9146	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R9147	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R9148	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R9149	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R9150	NRSA63J-182X	MG RESISTOR	1.8kΩ 1/16W J	
R9172	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R9173	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R9174	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R9175	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R9176	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R9177	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
R9178	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
R9180	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R9181	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R9182	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J	
R9184	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R9185	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R9186	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R9187	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R9188	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J	
R9189	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R9190	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R9191	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R9192	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R9196	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R9197	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R9198	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R9199	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R9201	NRSA63F-473X	MG RESISTOR	47kΩ 1/16W F	
R9202	NRSA63F-154X	MG RESISTOR	150kΩ 1/16W F	
R9203	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J	
R9204	NRSA63J-912X	MG RESISTOR	9.1kΩ 1/16W J	
R9207	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R9208	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R9210	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R9218	NRSA63J-432X	MG RESISTOR	4.3kΩ 1/16W J	
R9221	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R9222	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R9223	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R9224	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R9226	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R9230	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R9237	NRSA63J-243X	MG RESISTOR	24kΩ 1/16W J	
R9238	NRSA63J-243X	MG RESISTOR	24kΩ 1/16W J	
R9239	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R9240	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
R9272	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R9273	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R9274	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R9275	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R9278	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R9282	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R9285	NRSA63J-563X	MG RESISTOR	56kΩ 1/16W J	
R9286	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
VR731	QVQ0287-B24	V RESISTOR		
VR901	QSW0626-001	R ENCODER		
VR902	QSW0626-001	R ENCODER		
L4351	QQR1183-001Z	FERRITE BEADS		
L4352	QQR1183-001Z	FERRITE BEADS		
L4353	QQL244K-100Z	COIL	10uH K	
L4354	NQR0007-002X	FERRITE BEADS		
L4355	NQR0007-002X	FERRITE BEADS		
L4356	NQR0007-002X	FERRITE BEADS		
L6351	NQR0007-002X	FERRITE BEADS		
L6352	NQR0007-002X	FERRITE BEADS		
L6353	NQR0007-002X	FERRITE BEADS		
L9001	QQL244K-100Z	COIL	10uH K	
L9002	QQL244K-100Z	COIL	10uH K	
CN251	QGB1216K1-10S	CONNECTOR	B-B (1-10)	
CN252	QGB1216K1-10S	CONNECTOR	B-B (1-10)	
CN403	QGF1205C1-09	CONNECTOR	FFC/FPC (1-9)	
CN404	QGF1036F1-17	CONNECTOR	FFC/FPC (1-17)	
CN405	QGF1205C1-10	CONNECTOR	FFC/FPC (1-10)	
CN406	QGF1205C1-09	CONNECTOR	FFC/FPC (1-9)	
CN407	QGF1210G1-13	CONNECTOR	FFC/FPC (1-13)	
CN408	QGF1210G1-13	CONNECTOR	FFC/FPC (1-13)	
CN751	QGA2001F1-04	CONNECTOR	W-B (1-4)	
CN901	QGB1216J1-10S	CONNECTOR	B-B (1-10)	
CN902	QGB1216J1-10S	CONNECTOR	B-B (1-10)	
CN904	QGA2501C3-03Z	CONNECTOR	W-B (1-3)	
DI901	QLD0332-002	LCD MODULE		
FW251	QUM043-14Z3Z3	PARA RIBON WIRE		
FW253	QUM043-14Z3Z3	PARA RIBON WIRE		
FW256	QJK002-020602	SIN CL C-B WIRE		
FW401	QUM042-08Z3Z3	PARA RIBON WIRE		
FW403	QJK003-040704	SIN CL C-B WIRE		
J4301	QNS0186-001	JACK		
J6301	QNS0072-001	HEADPHONE JACK		
J7351	QNS0148-001	6.3 JACK		
K7351	QQR1183-001Z	FERRITE BEADS		
K9001	QQR1183-001Z	FERRITE BEADS		
K9003	QQR1183-001Z	FERRITE BEADS		
S2501	QSW0622-001Z	TACT SWITCH		
S2502	QSW0622-001Z	TACT SWITCH		
S2503	QSW0622-001Z	TACT SWITCH		
S2504	QSW0622-001Z	TACT SWITCH		
S2505	QSW0622-001Z	TACT SWITCH		
S2506	QSW0622-001Z	TACT SWITCH		
S2507	QSW0622-001Z	TACT SWITCH		
S2508	QSW0622-001Z	TACT SWITCH		
S2509	QSW0622-001Z	TACT SWITCH		
S2510	QSW0622-001Z	TACT SWITCH		
S2512	QSW0622-001Z	TACT SWITCH		
S2513	QSW0622-001Z	TACT SWITCH		
S2521	QSW0122-001	PUSH SWITCH		
X9001	QAX0401-001	CRYSTAL	32.768KHz	
X9002	QAX0416-001Z	C RESONATOR	8.000MHz	

Tuner board

Block No. [0][3]

⚠ Symbol No.	Part No.	Part Name	Description	Local
IC1	TA2104AN	IC		
IC2	LC72136N	IC		
Q1	2SC2668/O/-T	TRANSISTOR		
D1	SVC203SPA-JV-T	VARI CAP		
D2	SVC203SPA-JV-T	VARI CAP		
D5	1SS133-T2	SI DIODE		
D6	1SS133-T2	SI DIODE		
D8	SVC344-T	VARI CAP		
D12	1A3G-T1	SI DIODE		
C3	QCSB1HK-3R9Y	C CAPACITOR	3.9pF 50V K	
C6	QDYB1CM-103Y	C CAPACITOR	0.01uF 16V M	
C7	QDYB1CM-103Y	C CAPACITOR	0.01uF 16V M	
C9	QCSB1HJ-120Y	C CAPACITOR	12pF 50V J	
C13	QDX31EM-223Z	C CAPACITOR	0.022uF 25V M	
C16	QDYB1CM-103Y	C CAPACITOR	0.01uF 16V M	
C21	QDX31EM-473Z	C CAPACITOR	0.047uF 25V M	
C22	QFP31HJ-431Z	PP CAPACITOR	430pF 50V J	
C23	QDCB1HJ-120Y	C CAPACITOR	12pF 50V J	
C31	QDGB1HK-102Y	C CAPACITOR	1000pF 50V K	
C32	QDYB1CM-103Y	C CAPACITOR	0.01uF 16V M	
C33	QETN1AM-107Z	E CAPACITOR	100uF 10V M	
C35	QETN1HM-104Z	E CAPACITOR	0.1uF 50V M	
C36	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M	
C37	QDGB1HK-102Y	C CAPACITOR	1000pF 50V K	
C38	QDYB1CM-103Y	C CAPACITOR	0.01uF 16V M	
C40	QDYB1CM-103Y	C CAPACITOR	0.01uF 16V M	
C41	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M	
C42	QDX31EM-473Z	C CAPACITOR	0.047uF 25V M	
C43	QETN1HM-104Z	E CAPACITOR	0.1uF 50V M	
C44	QETN1HM-105Z	E CAPACITOR	1uF 50V M	
C45	QETN1HM-104Z	E CAPACITOR	0.1uF 50V M	
C47	QDX31EM-123Z	C CAPACITOR	0.012uF 25V M	

⚠ Symbol No.	Part No.	Part Name	Description	Local
C48	QDX31EM-123Z	C CAPACITOR	0.012uF 25V M	
C49	QETN1HM-104Z	E CAPACITOR	0.1uF 50V M	
C50	QETN1HM-104Z	E CAPACITOR	0.1uF 50V M	
C51	QCBB1HK-331Y	C CAPACITOR	330pF 50V K	
C52	QDGB1HK-102Y	C CAPACITOR	1000pF 50V K	
C56	QDGB1HK-102Y	C CAPACITOR	1000pF 50V K	
C60	QDGB1HK-102Y	C CAPACITOR	1000pF 50V K	
C61	QETN1AM-107Z	E CAPACITOR	100uF 10V M	
C62	QDCB1HJ-120Y	C CAPACITOR	12pF 50V J	
C63	QDGB1HK-102Y	C CAPACITOR	1000pF 50V K	
C64	QDCB1HJ-120Y	C CAPACITOR	12pF 50V J	
C65	QDGB1HK-102Y	C CAPACITOR	1000pF 50V K	
C66	QCBB1HK-151Y	C CAPACITOR	150pF 50V K	
C69	QDXB1CM-222Y	C CAPACITOR	2200pF 16V M	
C70	QETN1HM-225Z	E CAPACITOR	2.2uF 50V M	
C71	QETN1CM-106Z	E CAPACITOR	10uF 16V M	
C77	QDYB1CM-103Y	C CAPACITOR	0.01uF 16V M	
TC2	QAT3725-200Z	TRIM CAPACITOR	20pF	
R1	QRE141J-104Y	C RESISTOR	100kΩ 1/4W J	
R2	QRE141J-473Y	C RESISTOR	47kΩ 1/4W J	
R3	QRE141J-270Y	C RESISTOR	27Ω 1/4W J	
R4	QRE141J-473Y	C RESISTOR	47kΩ 1/4W J	
R7	QRE141J-104Y	C RESISTOR	100kΩ 1/4W J	
R9	QRE141J-472Y	C RESISTOR	4.7kΩ 1/4W J	
R13	QRE141J-104Y	C RESISTOR	100kΩ 1/4W J	
R18	QRE141J-102Y	C RESISTOR	1kΩ 1/4W J	
R20	QRE141J-223Y	C RESISTOR	22kΩ 1/4W J	
R24	QRE141J-681Y	C RESISTOR	680Ω 1/4W J	
R25	QRE141J-102Y	C RESISTOR	1kΩ 1/4W J	
R30	QRE141J-183Y	C RESISTOR	18kΩ 1/4W J	
R31	QRE141J-104Y	C RESISTOR	100kΩ 1/4W J	
R32	QRE141J-332Y	C RESISTOR	3.3kΩ 1/4W J	
R33	QRE141J-331Y	C RESISTOR	330Ω 1/4W J	
R35	QRE141J-223Y	C RESISTOR	22kΩ 1/4W J	
R36	QRE141J-223Y	C RESISTOR	22kΩ 1/4W J	
R37	QRE141J-560Y	C RESISTOR	56Ω 1/4W J	
R38	QRE141J-101Y	C RESISTOR	100Ω 1/4W J	
R39	QRE141J-121Y	C RESISTOR	120Ω 1/4W J	
R42	QRE141J-473Y	C RESISTOR	47kΩ 1/4W J	
R44	QRE141J-222Y	C RESISTOR	2.2kΩ 1/4W J	
R47	QRE141J-220Y	C RESISTOR	22Ω 1/4W J	
R48	QRE141J-102Y	C RESISTOR	1kΩ 1/4W J	
R52	QRE141J-103Y	C RESISTOR	10kΩ 1/4W J	
R54	QRE141J-222Y	C RESISTOR	2.2kΩ 1/4W J	
R55	QRE141J-222Y	C RESISTOR	2.2kΩ 1/4W J	
R56	QRE141J-332Y	C RESISTOR	3.3kΩ 1/4W J	
R57	QRE141J-102Y	C RESISTOR	1kΩ 1/4W J	
R59	QRE141J-102Y	C RESISTOR	1kΩ 1/4W J	
R60	QRE141J-102Y	C RESISTOR	1kΩ 1/4W J	
R61	QRE141J-102Y	C RESISTOR	1kΩ 1/4W J	
R63	QRE141J-473Y	C RESISTOR	47kΩ 1/4W J	
R64	QRE141J-102Y	C RESISTOR	1kΩ 1/4W J	
L1	QQR0772-001	OSC COIL		
L2	QQR0769-001	RF COIL		
L3	QQR0745-001	BAR ANTENA		
L4	QQR0723-001	OSC COIL		
L7	QQL231K-221Y	COIL	220uH K	
L10	QQL231K-4R7Y	COIL	4.7uH K	
L12	QQR0756-001	COIL		
T2	QAX0540-001	C FILTER	450kHz	
BP1	QQR0768-001Z	BP FILTER		
CF1	QAX0403-001	C FILTER	10.70MHz	
CF3	QAX0538-002Z	C DISCRIMINATOR	10.700MHz	
CN1	QGF1205C1-09	CONNECTOR	FFC/FPC (1-9)	
K1	QQR0779-001Z	COIL		
TP1	QNZ0104-001	POST PIN		
TP2	QNZ0104-001	POST PIN		
X1	QAX0402-001	CRYSTAL	75.0kHz	
ZD1	MTZJ3.0B-T2	Z DIODE		

CD servo board

Block No. [0][4]

⚠ Symbol No.	Part No.	Part Name	Description	Local
IC201	BR24L08FV-W-X	IC		
IC251	MN101C61GNJ	IC		
IC601	AN22002A-W	IC		
IC651	MN6627934CH	IC		
IC671	A42L2604V-45L	IC		
IC681	SN74AHC1G32DC-X	IC		
IC682	SN74LV08APW-X	IC		
IC801	AN4801SB-W	IC		
Q231	2SC2814/4-5/-X	TRANSISTOR		
Q232	2SC2814/4-5/-X	TRANSISTOR		
Q291	2SB1424/QR/-W	TRANSISTOR		
Q631	2SA1037AK/RS/-X	TRANSISTOR		
D251	RB521S-30-X	SB DIODE		
D252	RB521S-30-X	SB DIODE		
D601	1SS355-X	SI DIODE		
C201	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C231	NDC31HJ-390X	C CAPACITOR	39pF 50V J	
C232	NDC31HJ-390X	C CAPACITOR	39pF 50V J	
C233	NCB31HK-102X	C CAPACITOR	1000pF 50V K	
C234	NCB31HK-102X	C CAPACITOR	1000pF 50V K	
C251	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C252	QEKJ0JM-476Z	E CAPACITOR	47uF 6.3V M	
C253	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C259	NDC31HJ-101X	C CAPACITOR	100pF 50V J	
C291	QERF0JM-226Z	E CAPACITOR	22uF 6.3V M	
C603	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C604	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C605	NDC31HJ-391X	C CAPACITOR	390pF 50V J	
C606	NDC31HJ-121X	C CAPACITOR	120pF 50V J	
C609	NDC31HJ-470X	C CAPACITOR	47pF 50V J	
C610	NCB31CK-563X	C CAPACITOR	0.056uF 16V K	
C611	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C612	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C614	NCB31CK-393X	C CAPACITOR	0.039uF 16V K	
C615	NCB31HK-272X	C CAPACITOR	2700pF 50V K	
C616	NCB31HK-182X	C CAPACITOR	1800pF 50V K	
C621	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C622	QEKJ0JM-107Z	E CAPACITOR	100uF 6.3V M	
C623	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C624	QEKJ0JM-107Z	E CAPACITOR	100uF 6.3V M	
C631	QEKJ1CM-106Z	E CAPACITOR	10uF 16V M	
C632	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C633	NCB31EK-223X	C CAPACITOR	0.022uF 25V K	
C641	NDC31HJ-101X	C CAPACITOR	100pF 50V J	
C651	QEKJ0JM-107Z	E CAPACITOR	100uF 6.3V M	
C652	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C653	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C654	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C655	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C656	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C657	NCS31HJ-681X	C CAPACITOR	680pF 50V J	
C658	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C659	NCB31EK-223X	C CAPACITOR	0.022uF 25V K	
C661	NCB31HK-102X	C CAPACITOR	1000pF 50V K	
C662	NCB31CK-823X	C CAPACITOR	0.082uF 16V K	
C663	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C664	QERF0JM-476Z	E CAPACITOR	47uF 6.3V M	
C665	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C666	QEKJ0JM-107Z	E CAPACITOR	100uF 6.3V M	
C667	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C669	NCB31HK-182X	C CAPACITOR	1800pF 50V K	
C672	NCB31HK-182X	C CAPACITOR	1800pF 50V K	
C673	QEKJ1CM-106Z	E CAPACITOR	10uF 16V M	
C674	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C675	NDC31HJ-100X	C CAPACITOR	10pF 50V J	
C676	NDC31HJ-100X	C CAPACITOR	10pF 50V J	
C677	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C678	QEKJ0JM-107Z	E CAPACITOR	100uF 6.3V M	
C681	NCB31CK-103X	C CAPACITOR	0.01uF 16V K	
C690	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C801	QERF1AM-227Z	E CAPACITOR	220uF 10V M	

⚠ Symbol No.	Part No.	Part Name	Description	Local
C802	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C803	NCB31AK-474X	C CAPACITOR	0.47uF 10V K	
C804	NCB31CK-103X	C CAPACITOR	0.01uF 16V K	
C805	NCB31HK-222X	C CAPACITOR	2200pF 50V K	
C806	NCB31HK-152X	C CAPACITOR	1500pF 50V K	
R231	NRSA63J-822X	MG RESISTOR	8.2kΩ 1/16W J	
R232	NRSA63J-822X	MG RESISTOR	8.2kΩ 1/16W J	
R233	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R234	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R236	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R251	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R253	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R255	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R256	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R258	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R259	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R260	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R261	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R262	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R263	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R264	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R265	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R266	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R267	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R268	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R271	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R274	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R278	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R289	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R293	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R294	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R295	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R296	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R297	NRSA63J-122X	MG RESISTOR	1.2kΩ 1/16W J	
R298	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R601	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J	
R602	NRSA63J-392X	MG RESISTOR	3.9kΩ 1/16W J	
R603	NRSA63J-393X	MG RESISTOR	39kΩ 1/16W J	
R604	NRSA63J-124X	MG RESISTOR	120kΩ 1/16W J	
R605	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R606	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R607	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
R608	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
R611	NRSA63J-392X	MG RESISTOR	3.9kΩ 1/16W J	
R613	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R617	NRSA63J-122X	MG RESISTOR	1.2kΩ 1/16W J	
R621	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R625	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R631	NRSA63J-470X	MG RESISTOR	47Ω 1/16W J	
R632	NRSA63J-3R9X	MG RESISTOR	3.9Ω 1/16W J	
R634	NRSA63J-3R9X	MG RESISTOR	3.9Ω 1/16W J	
R635	NRSA63J-100X	MG RESISTOR	10Ω 1/16W J	
R651	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R652	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R653	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
R654	NRSA63J-753X	MG RESISTOR	75kΩ 1/16W J	
R655	NRSA63J-105X	MG RESISTOR	1MΩ 1/16W J	
R656	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R657	NRSA63J-821X	MG RESISTOR	820Ω 1/16W J	
R658	NRSA63J-241X	MG RESISTOR	240Ω 1/16W J	
R659	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J	
R661	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J	
R662	NRSA02J-101X	MG RESISTOR	100Ω 1/10W J	
R664	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R665	NRSA63J-681X	MG RESISTOR	680Ω 1/16W J	
R666	NRSA63J-561X	MG RESISTOR	560Ω 1/16W J	
R667	NRSA63J-681X	MG RESISTOR	680Ω 1/16W J	
R668	NRSA63J-561X	MG RESISTOR	560Ω 1/16W J	
R669	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R671	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J	
R672	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R673	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R674	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R675	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R676	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R678	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R679	NRSA63J-270X	MG RESISTOR	27Ω 1/16W J	
R681	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R682	NRSA63J-391X	MG RESISTOR	390Ω 1/16W J	
R801	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R802	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R803	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J	
R805	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R806	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	
R807	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J	
R809	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
R811	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J	
R812	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R814	NRSA63J-183X	MG RESISTOR	18kΩ 1/16W J	
R815	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J	
R816	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J	
R818	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
R830	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R831	NRSA63J-271X	MG RESISTOR	270Ω 1/16W J	
R832	NRSA63J-271X	MG RESISTOR	270Ω 1/16W J	
R833	NRSA63J-271X	MG RESISTOR	270Ω 1/16W J	
R834	NRSA63J-271X	MG RESISTOR	270Ω 1/16W J	
R835	NRSA63J-271X	MG RESISTOR	270Ω 1/16W J	
R836	NRSA63J-271X	MG RESISTOR	270Ω 1/16W J	
R837	NRSA63J-271X	MG RESISTOR	270Ω 1/16W J	
R838	NRSA63J-271X	MG RESISTOR	270Ω 1/16W J	
R839	NRSA63J-271X	MG RESISTOR	270Ω 1/16W J	
R840	NRSA63J-271X	MG RESISTOR	270Ω 1/16W J	
R841	NRSA63J-271X	MG RESISTOR	270Ω 1/16W J	
R842	NRSA63J-271X	MG RESISTOR	270Ω 1/16W J	
R843	NRSA63J-271X	MG RESISTOR	270Ω 1/16W J	
R844	NRSA63J-271X	MG RESISTOR	270Ω 1/16W J	
R845	NRSA63J-271X	MG RESISTOR	270Ω 1/16W J	
R846	NRSA63J-271X	MG RESISTOR	270Ω 1/16W J	
R847	NRSA63J-271X	MG RESISTOR	270Ω 1/16W J	
R848	NRSA63J-271X	MG RESISTOR	270Ω 1/16W J	
CN601	QGF1008F1-16	CONNECTOR	FFC/FPC (1-16)	
CN603	QGA2501F1-02	CONNECTOR	W-B (1-2)	
CN651	QGF1036F1-17	CONNECTOR	FFC/FPC (1-17)	
FW602	QJK004-060601	SIN CL C-B WIRE		
K251	NQR0007-002X	FERRITE BEADS		
K252	NQR0007-002X	FERRITE BEADS		
K254	NQR0007-002X	FERRITE BEADS		
K651	QQR1183-001Z	FERRITE BEADS		
K654	NQR0007-002X	FERRITE BEADS		
X251	QAX0684-001Z	C RESONATOR	8.38MHz	
X651	NAX0476-001X	CRYSTAL	33.8688MHz	

Head amplifier board

Block No. [0][5]

⚠ Symbol No.	Part No.	Part Name	Description	Local
IC31	BA3126N	IC		
IC32	AN7317	IC		
IC33	BU4094BCF-X	IC		
Q101	DTC114TKA-X	TRANSISTOR		
Q102	DTC114TKA-X	TRANSISTOR		
Q201	DTC114TKA-X	TRANSISTOR		
Q202	DTC114TKA-X	TRANSISTOR		
Q301	DTA144EKA-X	DIGI TRANSISTOR		
Q302	2SC2001/K/-T	TRANSISTOR		
Q303	2SC2001/K/-T	TRANSISTOR		
Q304	2SC2001/LK/-T	TRANSISTOR		
Q305	2SC2001/LK/-T	TRANSISTOR		
Q306	2SC2412K/RS/-X	TRANSISTOR		
Q307	2SC2412K/RS/-X	TRANSISTOR		
Q308	2SC2412K/RS/-X	TRANSISTOR		
Q309	2SC2412K/RS/-X	TRANSISTOR		
Q321	DTC144EKA-X	DIGI TRANSISTOR		
Q323	2SC2412K/RS/-X	TRANSISTOR		
Q371	2SA952/LK/-T	TRANSISTOR		
Q372	DTC124EKA-X	DIGI TRANSISTOR		
Q375	2SB562/C/-T	TRANSISTOR		

⚠ Symbol No.	Part No.	Part Name	Description	Local
Q376	2SC2412K/RS/-X	TRANSISTOR		
D301	MA152WA-X	DIODE		
D309	MA704A-X	S.K.DIODE		
D375	HZM5.1NB2-X	Z DIODE		
C101	NCS21HJ-821X	C CAPACITOR	820pF 50V J	
C102	NCS21HJ-221X	C CAPACITOR	220pF 50V J	
C103	QEKJ0JM-227Z	E CAPACITOR	220uF 6.3V M	
C104	NCB21HK-333X	C CAPACITOR	0.033uF 50V K	
C105	NCB21HK-222X	C CAPACITOR	2200pF 50V K	
C106	QEKJ1CM-106Z	E CAPACITOR	10uF 16V M	
C107	NCS21HJ-561X	C CAPACITOR	560pF 50V J	
C108	QEKJ1EM-475Z	E CAPACITOR	4.7uF 25V M	
C109	QEKJ1EM-475Z	E CAPACITOR	4.7uF 25V M	
C110	NCB21HK-682X	C CAPACITOR	6800pF 50V K	
C111	NCB21HK-122X	C CAPACITOR	1200pF 50V K	
C112	NCB21EK-683X	C CAPACITOR	0.068uF 25V K	
C113	NCB21HK-222X	C CAPACITOR	2200pF 50V K	
C121	NCS21HJ-331X	C CAPACITOR	330pF 50V J	
C201	NCS21HJ-821X	C CAPACITOR	820pF 50V J	
C202	NCS21HJ-221X	C CAPACITOR	220pF 50V J	
C203	QEKJ0JM-227Z	E CAPACITOR	220uF 6.3V M	
C204	NCB21HK-333X	C CAPACITOR	0.033uF 50V K	
C205	NCB21HK-222X	C CAPACITOR	2200pF 50V K	
C206	QEKJ1CM-106Z	E CAPACITOR	10uF 16V M	
C207	NCS21HJ-561X	C CAPACITOR	560pF 50V J	
C208	QEKJ1EM-475Z	E CAPACITOR	4.7uF 25V M	
C209	QEKJ1EM-475Z	E CAPACITOR	4.7uF 25V M	
C210	NCB21HK-682X	C CAPACITOR	6800pF 50V K	
C211	NCB21HK-122X	C CAPACITOR	1200pF 50V K	
C212	NCB21EK-683X	C CAPACITOR	0.068uF 25V K	
C213	NCB21HK-222X	C CAPACITOR	2200pF 50V K	
C221	NCS21HJ-331X	C CAPACITOR	330pF 50V J	
C301	QEKJ1AM-107Z	E CAPACITOR	100uF 10V M	
C302	NCB21HK-393X	C CAPACITOR	0.039uF 50V K	
C303	QEKJ0JM-227Z	E CAPACITOR	220uF 6.3V M	
C304	QEKJ1CM-226Z	E CAPACITOR	22uF 16V M	
C305	QEKJ1CM-226Z	E CAPACITOR	22uF 16V M	
C306	QEKJ1CM-476Z	E CAPACITOR	47uF 16V M	
C307	NCB21HK-103X	C CAPACITOR	0.01uF 50V K	
C308	NCB21HK-562X	C CAPACITOR	5600pF 50V K	
C309	NCB21HK-562X	C CAPACITOR	5600pF 50V K	
C310	NCB21HK-223X	C CAPACITOR	0.022uF 50V K	
C311	NCB21HK-682X	C CAPACITOR	6800pF 50V K	
C313	QEKJ1AM-107Z	E CAPACITOR	100uF 10V M	
C314	QCZ0202-155Z	C CAPACITOR	1.5uF 25V Z	
C315	QCZ0202-155Z	C CAPACITOR	1.5uF 25V Z	
C316	QFG32AJ-103Z	PP CAPACITOR	0.01uF 100V J	
C318	NCB21HK-103X	C CAPACITOR	0.01uF 50V K	
C319	QFG32AJ-821Z	PP CAPACITOR	820pF 100V J	
C321	NCB21HK-103X	C CAPACITOR	0.01uF 50V K	
C322	QFG32AJ-152Z	PP CAPACITOR	1500pF 100V J	
C331	QEKJ1CM-476Z	E CAPACITOR	47uF 16V M	
C351	QEKJ1CM-106Z	E CAPACITOR	10uF 16V M	
C371	QEKJ1EM-475Z	E CAPACITOR	4.7uF 25V M	
C374	QEKJ1AM-107Z	E CAPACITOR	100uF 10V M	
C375	QEKJ1AM-107Z	E CAPACITOR	100uF 10V M	
C376	NCB21HK-103X	C CAPACITOR	0.01uF 50V K	
R101	NRSA63J-220X	MG RESISTOR	22Ω 1/16W J	
R102	NRSA63J-182X	MG RESISTOR	1.8kΩ 1/16W J	
R103	NRSA63J-242X	MG RESISTOR	2.4kΩ 1/16W J	
R104	NRSA63J-122X	MG RESISTOR	1.2kΩ 1/16W J	
R105	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R106	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	
R107	NRSA63J-123X	MG RESISTOR	12kΩ 1/16W J	
R108	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J	
R109	NRSA63J-122X	MG RESISTOR	1.2kΩ 1/16W J	
R110	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R111	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J	
R112	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R113	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R114	NRSA63J-272X	MG RESISTOR	2.7kΩ 1/16W J	
R116	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R121	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R201	NRSA63J-220X	MG RESISTOR	22Ω 1/16W J	
R202	NRSA63J-182X	MG RESISTOR	1.8kΩ 1/16W J	
R203	NRSA63J-242X	MG RESISTOR	2.4kΩ 1/16W J	
R204	NRSA63J-122X	MG RESISTOR	1.2kΩ 1/16W J	
R205	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R206	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	
R207	NRSA63J-123X	MG RESISTOR	12kΩ 1/16W J	
R208	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J	
R209	NRSA63J-122X	MG RESISTOR	1.2kΩ 1/16W J	
R210	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R211	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J	
R212	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R213	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R214	NRSA63J-272X	MG RESISTOR	2.7kΩ 1/16W J	
R216	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R221	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R301	NRS181J-221X	MG RESISTOR	220Ω 1/8W J	
R303	NRSA63J-393X	MG RESISTOR	39kΩ 1/16W J	
R304	NRS181J-101X	MG RESISTOR	100Ω 1/8W J	
R305	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R306	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R310	NRS181J-560X	MG RESISTOR	56Ω 1/8W J	
R311	NRS181J-560X	MG RESISTOR	56Ω 1/8W J	
R313	NRSA63J-3R3X	MG RESISTOR	3.3Ω 1/16W J	
R314	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
R315	NRSA63J-100X	MG RESISTOR	10Ω 1/16W J	
R316	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
R317	NRSA63J-100X	MG RESISTOR	10Ω 1/16W J	
R319	NRSA63J-152X	MG RESISTOR	1.5kΩ 1/16W J	
R322	NRSA63J-152X	MG RESISTOR	1.5kΩ 1/16W J	
R327	NRSA63J-474X	MG RESISTOR	470kΩ 1/16W J	
R332	NRSA63J-123X	MG RESISTOR	12kΩ 1/16W J	
R333	NRSA63J-123X	MG RESISTOR	12kΩ 1/16W J	
R335	NRSA63J-152X	MG RESISTOR	1.5kΩ 1/16W J	
R336	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R337	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	
R338	NRSA63J-392X	MG RESISTOR	3.9kΩ 1/16W J	
R339	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R340	NRS181J-391X	MG RESISTOR	390Ω 1/8W J	
R341	NRSA63J-123X	MG RESISTOR	12kΩ 1/16W J	
R342	NRSA63J-203X	MG RESISTOR	20kΩ 1/16W J	
R343	NRSA63J-183X	MG RESISTOR	18kΩ 1/16W J	
R351	NRSA63J-683X	MG RESISTOR	68kΩ 1/16W J	
R352	NRSA63J-912X	MG RESISTOR	9.1kΩ 1/16W J	
R371	NRSA63J-123X	MG RESISTOR	12kΩ 1/16W J	
R372	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R375	NRSA02J-151X	MG RESISTOR	150Ω 1/10W J	
R376	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
VR31	QVP0008-503Z	TRIM RESISTOR	50kΩ	
VR32	QVP0008-503Z	TRIM RESISTOR	50kΩ	
VR37	QVP0008-103Z	TRIM RESISTOR	10kΩ	
L301	QQR0620-001	OSC COIL(BIAS)		
L303	QQL01BK-100Z	COIL	10uH K	
CN31	QGF1201F3-06	CONNECTOR	FFC/FPC (1-6)	
CN32	QGB2011M1-10	CONNECTOR	B-B (1-10)	
CN33	QGF1205F1-09	CONNECTOR	FFC/FPC (1-9)	
CN34	QGF1201F3-10	CONNECTOR	FFC/FPC (1-10)	
FW31	QUM024-06A2Z3	PARA RIBON WIRE		

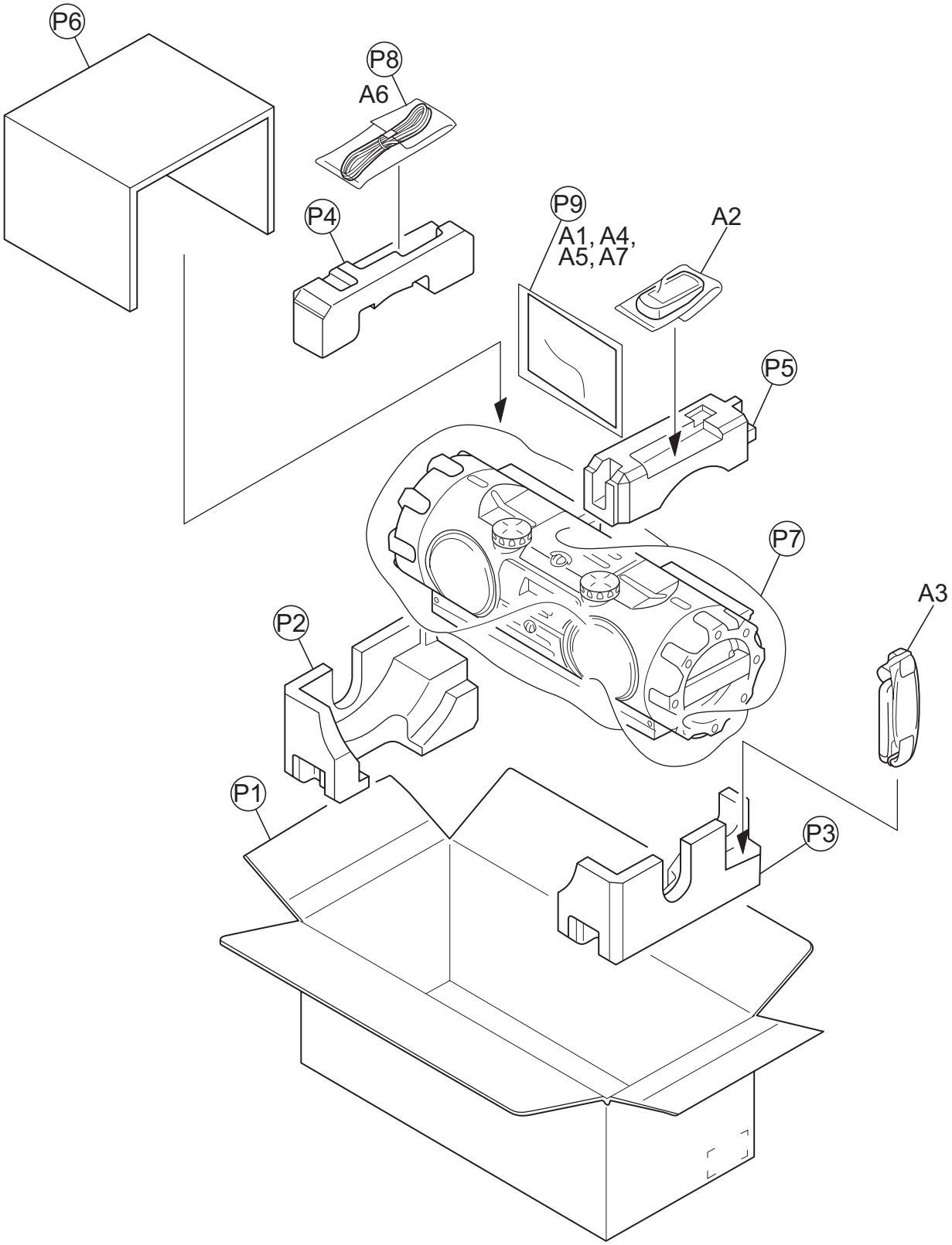
Cassette switch board

Block No. [0][6]

⚠ Symbol No.	Part No.	Part Name	Description	Local
IC1	SG-105F3-BB,C	PHOTO SENSER		
D1	1SR139-400-T2	SI DIODE		
CN1	QGB2011L1-10	CONNECTOR	B-B (1-10)	
P1	QNZ0104-001	POST PIN		
SW1	QSW0832-001	CASS.SWITCH		
SW2	QSW0832-001	CASS.SWITCH		
SW4	QSW0832-001	CASS.SWITCH		
SW5	QSW0832-001	CASS.SWITCH		
SW6	QSW0859-001	DETECT SWITCH		

Packing materials and accessories parts list

Block No. M 3 M M



Packing and Accessories

No additional / supplemental order of WARRANTY CARDs are available.

Block No. [M][3][M][M]

⚠	Symbol No.	Part No.	Part Name	Description	Local
	A 1	LVT1265-002A	INST BOOK	ENG,FRE	NB1C
	A 1	LVT1265-001A	INST BOOK	ENG	NB1J
	A 2	RM-SRVNB1A	REMO-CON UNIT		
	A 3	LV35227-001A	SHOULDER BELT		
	A 4	BT-51034-2	REGISTRATION CARD		NB1J
	A 5	YU20333	SAFETY INST.		
⚠	A 6	QMPE090-183-JD	POWER CORD(US/CA)	1.83m BLACK	
	A 7	----------	WARRANTY CARD	BT-52006-2	NB1C
	P 1	LV35228-002A	CARTON		
	P 2	VPH1721-001	BOTTOM(L)		
	P 3	VPH1721-002	BOTTOM(R)		
	P 4	VPH1721-007	UPPER (L)		
	P 5	VPH1721-006	UPPER (R)		
	P 6	VPK4343-001	CARTON SHEET		
	P 7	QPF16016015	POLY SHEET	160cm x 160cm	
	P 8	QPA01202505	POLY BAG	12cm x 25cm	
	P 9	QPA02503503P	POLY BAG	25cm x 35cm	